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OFFICIAL REGISTER OF HARVARD UNIVERSITY

VOL. XX JANUARY 22, 1923 NO. 2

THE DENTAL SCHOOL

BOSTON, MASSACHUSETTS

1922-23

PUBLISHED BY THE UNIVERSITY
CAMBRIDGE, MASSACHUSETTS

ANNOUNCEMENT

OF THE

DENTAL SCHOOL

OF

HARVARD UNIVERSITY

1922-23

CAMBRIDGE
PUBLISHED BY THE UNIVERSITY
1923

1922

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1923

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DENTAL SCHOOL CALENDAR

1922.

Sept. 13, Wednesday. Examinations begin for applicants for advanced standing, and for men previously conditioned.

Sept. 25, Monday. **Academic Year begins.** Registration of Students. Payment of the first instalment of the tuition-fee is required on or before this date.

Oct. 12, Thursday. Columbus Day : a holiday.

Nov. 29, Wednesday. Payment of the second instalment of the tuition-fee is required on or before this date.

30, Thursday. Thanksgiving Day : a holiday.

Recess from Dec. 23, 1922, to Jan. 2, 1923, inclusive.

1923.

Jan. 1, Monday. New Year's Day : a holiday.

Jan. 30, Tuesday. Payment of the third instalment of the tuition-fee is required on or before this date.

Feb. 1, Thursday. **Second half-year begins.**

Feb. 22, Thursday. Washington's Birthday : a holiday.

Recess from April 15 to April 21, inclusive.

Apr. 30, Monday. Payment of the fourth instalment of the tuition-fee is required on or before this date.

May 1, Tuesday. Last day for receiving applications of candidates for the degree of D.M.D. in June, 1923.

May 30, Wednesday. Memorial Day : a holiday.

June 20, Wednesday. Alumni Day.

June 21, Thursday. **Commencement.**

Summer Vacation, from Commencement to September 23, inclusive.

Sept. 24, Monday. **Academic Year begins.** Registration of Students. Payment of the first instalment of the tuition-fee is required on or before this date.

Oct. 12, Friday. Columbus Day : a holiday.

Nov. 29, Thursday. Thanksgiving Day : a holiday.

THE PRESIDENT AND FELLOWS OF HARVARD COLLEGE

This Board is commonly known as the CORPORATION.

PRESIDENT

ABBOTT LAWRENCE LOWELL, A.B., LL.B., LL.D.
17 Quincy St., Cambridge

FELLOWS

HENRY PICKERING WALCOTT, A.B., M.D., LL.D.
11 Waterhouse St., Cambridge

THOMAS NELSON PERKINS, A.B., LL.B. 60 State St., Boston

WILLIAM LAWRENCE, A.B., D.D., LL.D., D.C.L.
122 Commonwealth Ave., Boston

JOHN FARWELL MOORS, A.M., LL.D. 32 Mt. Vernon St., Boston

JAMES BYRNE, A.B., LL.B., LL.D. 270 Park Ave., New York, N.Y.

TREASURER

CHARLES FRANCIS ADAMS, A.B., LL.B. 50 State St., Boston

DEPUTY TREASURER

GORHAM BROOKS, A.B. 60 State St., Boston

SECRETARIES TO THE CORPORATION

FRANCIS WELLES HUNNEWELL, A.B., LL.B.
5 University Hall, Cambridge

FREDERICK LEWIS ALLEN, A.M. 1 University Hall, Cambridge

THE BOARD OF OVERSEERS

The PRESIDENT and TREASURER of the University, *ex officio*, and the following persons by election: —

1923*

FRANCIS JOSEPH SWAYZE, A.M., LL.D. 765 High St., Newark, N. J.

LEONARD WOOD, M.D., LL.D., D.C.L., M.S.D.
Manila, Philippine Islands

ARTHUR WOODS, A.M., LL.D. 32 East 36th St., New York, N. Y.

JEROME DAVIS GREENE, A.M. 43 Exchange Place, New York, N. Y.

FRANKLIN DELANO ROOSEVELT, A.B., LL.D. Hyde Park, N. Y.

1924

HENRY CABOT LODGE, PH.D., LL.B., LL.D.
United States Senate, Washington, D. C.

GEORGE WIGGLESWORTH, A.M., LL.B., *President*,
40 Central St., Boston

FRANCIS RANDALL APPLETON, A.B., LL.B.
26 East 37th St., New York, N. Y.

IRA NELSON HOLLIS, A.M., L.H.D., S.D.
Worcester Polytechnic Institute, Worcester

PAUL REVERE FROTHINGHAM, A.M., D.D.
294 Beacon St., Boston

1925

EDWARD HICKLING BRADFORD, A.M., M.D.
220 Beacon St., Boston

OWEN WISTER, A.M., LL.B., LL.D., LITT.D.
1004 West End Trust Building, Philadelphia, Pa.

JULIAN WILLIAM MACK, LL.B.
The Woolworth Building, New York, N. Y.

THOMAS WILLIAM LAMONT, A.B. 23 Wall St., New York, N. Y.

ELLERY SEDGWICK, A.B., LITT.D. 8 Arlington St., Boston

* The term expires, in each case, on Commencement Day of the year indicated.

1926

WILLIAM ROSCOE THAYER, A.M., LL.D., L.H.D., LITT.D.
8 Berkeley St.

EDWIN FRANCIS GAY, PH.D., LL.D.
1261 Madison Ave., New York, N. Y.

LOUIS ADAMS FROTHINGHAM, A.B., LL.B.
House of Representatives, Washington, D. C.

NORWOOD PENROSE HALLOWELL, A.B. 44 State St., Boston

ROGER WOLCOTT, A.B., LL.B. 60 State St., Boston

1927

EDGAR CONWAY FELTON, A.B. Haverford, Pa.

HOMER GAGE, A.M., M.D. 8 Chestnut St., Worcester

LANGDON PARKER MARVIN, A.M., LL.B.
52 Wall St., New York, N. Y.

JAMES JACKSON, A.B. State House, Boston

CHARLES HENRY BRENT, A.M., D.D., LL.D.
237 North St., Buffalo, N. Y.

1928

CHARLES ALLERTON COOLIDGE, A.B., ART.D.
122 Ames Building, Boston

WILLIAM SYDNEY THAYER, A.B., M.D., LL.D., F.R.C.P.
1208 Eutaw Place, Baltimore, Md.

HENRY JAMES, A.B., LL.B. 10 East 10th St., New York, N. Y.

SAMUEL SMITH DRURY, A.B., D.D., L.H.D., LITT.D.
St. Paul's School, Concord, N. H.

BENJAMIN LORING YOUNG, A.B., LL.B. Auburndale

SECRETARY OF THE BOARD OF OVERSEERS

WINTHROP HOWLAND WADE, A.M., LL.B.
321 Shawmut Bank Building, Boston

DEPARTMENTS OF THE UNIVERSITY

The University comprehends the following departments: —

Harvard College,
Graduate School of Arts and Sciences,
Special Students,
Engineering School,
Graduate School of Business Administration,
School of Architecture,
School of Landscape Architecture,
Bussey Institution,
Theological School,
Law School,
Graduate School of Education,
Medical School,
Dental School,
Graduate Courses in Medicine,
Arnold Arboretum,
University Library,
Museum of Comparative Zoölogy,
Peabody Museum of American Archaeology and Ethnology,
University Museum,
Botanic Gardens,
Gray Herbarium,
Astronomical Observatory.

☞ Students in regular standing in any one department of the University are admitted free to the instruction and the examinations given in any other department, with the exception of exercises carried on in the special laboratories. But no student paying less than the full fee in his own department is admitted to exercises given in any other department, except upon payment of suitable fees therefor, and with the knowledge and consent of the Deans both of his department and of the department in which the additional instruction is given.

ADMINISTRATIVE OFFICERS

THE UNIVERSITY

President: Abbott Lawrence Lowell, A.B., LL.B., LL.D., PH.D.
Office, 5 University Hall, Cambridge.

Treasurer: Charles Francis Adams, A.B., LL.B.

Deputy Treasurer: Gorham Brooks, A.B.
The office of the Corporation (and of the Treasurer) is at 50 State Street, Boston. Office hours, 9 A.M. to 5 P.M.; Saturday, 9 A.M. to 1 P.M.

Secretaries to the Corporation: Francis Welles Hunnewell, 2d, A.B., LL.B.
Office, 5 University Hall, Cambridge.
Frederick Lewis Allen, A.M.
Office, 3 University Hall, Cambridge.

Comptroller: Frederick Sumner Mead, A.B.
The Delta, Kirkland St., Cambridge.
Office, 5 University Hall, Cambridge.

Assistant Comptroller: John Lewis Taylor.
Office, 14 Quincy St., Cambridge. Office hours, 9 A.M. to 1 P.M.

Bursar: Arthur Lovett Endicott, A.B.
Office, 14 Quincy St., Cambridge. Office hours, 9 A.M. to 1 P.M.

Inspector of Grounds and Buildings: Walter Safford Burke.
Office, Massachusetts Hall, Cambridge. Office hours, daily, except Saturday, 9 A.M. to 1 P.M., 4 to 4.30 P.M.; Saturday, 9 A.M. to 12.30 P.M.

Regent: Matthew Luce, A.B.
Office, 31 Weld Hall, Cambridge.

Professor of Hygiene: Roger Irving Lee, A.B., M.D.

Medical Adviser: Marshall Henry Bailey, M.D.
Office, 21 Thayer Hall, Cambridge.

Physical Director: William Henry Geer, S.B., B.P.E.
Office, 3 Weld Hall, Cambridge.

Secretary for Student Employment: Morris Gray, Jr., A.B.
Office, 9 University Hall, Cambridge.

THE FACULTY OF ARTS AND SCIENCES

The Offices of this Faculty and of the Departments under its charge at Nos. 2, 4, 10, 19, 20, 23 and 24, University Hall, Cambridge, are open on week-days from 9 A.M. *to* 1 P.M. *Nos. 2, 10, 19, 20, 23, and 24 are also open on week-days, except Saturdays, from* 2 *to* 5 P.M.

Dean of the Faculty of Arts and Sciences: LE BARON RUSSELL BRIGGS, A.M., LL.D., LITT.D.
Office, 10 University Hall. Office hours, Monday, 10 A.M. to 1 P.M.

Dean of the Graduate School of Arts and Sciences: CHARLES HOMER HASKINS, PH.D., LITT.D., LL.D.
Office, 23 University Hall. Office hours, Monday, Wednesday, Friday, 12 M. to 1.15 P.M.; Tuesday, Thursday, 11 to 12 M.

Dean of Harvard College: HENRY AARON YEOMANS, A.M., LL.B.
Office, 4 University Hall. Office hours, Monday, Wednesday, 3 to 5 P.M.; Tuesday, Thursday, 9.30 to 11.30 AM.; Saturday, 11 A.M.–12 M.

Assistant Deans of Harvard College: PHILIP P. CHASE, A.M., LL.B., EDWARD RANDOLPH GAY, A.B., DELMAR LEIGHTON, A.B., DAVID M. LITTLE, Jr., A.B.
Office, 2 University Hall. Office hours, Tuesday, Wednesday, Thursday, Friday, 10 A.M. to 1 P.M.

Recorder and Secretary of the Faculty of Arts and Sciences: GEORGE WASHINGTON CRAM, A.B.
Office, 4 University Hall. Office hours, daily, 9 A.M. to 1 P.M.

Chairman of the Committee on Admission: HENRY PENNYPACKER, A.B.
Office, 20 University Hall. Office hours, daily, 9 A.M. to 1 P.M.

Dean of Special Students, and *Dean in Charge of University Extension:* JAMES HARDY ROPES, A.B., D.D.
Office, 19 University Hall.

Secretary of the Administrative Board for Special Students: ARTHUR FISHER WHITTEM, PH.D.
Office, 19 University Hall. Office hours, Monday, Wednesday, Friday, 1 P.M.

Secretary of the Graduate School of Arts and Sciences: GEORGE WASHINGTON ROBINSON, A.B.
Office, 24 University Hall. Office hours, daily, 10 A.M. to 12 M., and daily, except Saturday, 2 to 4 P.M.

LABORATORIES AND MUSEUMS ASSOCIATED WITH THE FACULTY OF ARTS AND SCIENCES

Director of the Chemical Laboratory: ARTHUR BECKET LAMB, PH.D.

Assistant Director of the Chemical Laboratory: WILLIS ARNOLD BOUGHTON, A.B.

The Chemical Laboratory is in Boylston Hall.

Director of the Wolcott Gibbs Memorial Laboratory: THEODORE WILLIAM RICHARDS, PH.D., S.D., LL.D., CHEM.D., M.D.

The Wolcott Gibbs Memorial Laboratory is on Frisbie Place.

Acting Director of the Jefferson Physical Laboratory: THEODORE LYMAN, PH.D.

The Jefferson Physical Laboratory is on Holmes Field.

Director of the Cruft High-Tension Engineering Laboratory: GEORGE WASHINGTON PIERCE, PH.D.

The Cruft Memorial Laboratory is on Holmes Field.

Director of the Museum of Comparative Zoölogy: SAMUEL HENSHAW, A.M.

Honorary Curator of the Botanical Museum: GEORGE LINCOLN GOODALE, M.D., LL.D.

Curator of the Mineralogical Museum: JOHN ELIOT WOLFF, PH.D.

Director of the Peabody Museum of American Archaeology and Ethnology: CHARLES CLARK WILLOUGHBY, A.M.

The above Museums are between Oxford Street and Divinity Avenue.

Curator of the Semitic Museum: DAVID GORDON LYON, PH.D., D.D.

The Semitic Museum is on Divinity Avenue.

Honorary Curator of the Germanic Museum: KUNO FRANCKE, PH.D., LL.D., LITT.D.

The Germanic Museum is at the corner of Kirkland Street and Divinity Avenue.

Director of the Fogg Museum of Art, and *Curator of the Gray Collection of Engravings:* EDWARD WALDO FORBES, A.B.

Assistant Director of the Fogg Museum of Art: PAUL JOSEPH SACHS, A.B.

The Fogg Museum of Art is on Cambridge Street.

Director of the Botanic Garden: OAKES AMES, A.M.

Curator of the Gray Herbarium: BENJAMIN LINCOLN ROBINSON, PH.D.

The Herbarium and Botanic Garden are at the corner of Garden and Linnaean Streets.

Director of the Harvard University Press: HAROLD MURDOCK, A.M.

The Harvard University Press is in Randall Hall, corner of Kirkland Street and Divinity Avenue.

OTHER FACULTIES AND DEPARTMENTS

Dean of the Engineering School: Hector James Hughes, A.B., S.B.
Office, 223 Pierce Hall, Cambridge.

Acting Dean of the Faculty of Architecture: Charles Wilson Killam.
Office, Robinson Hall. Office hours, daily, except Saturday, 9 to 12 A.M.

Dean of the Graduate School of Business Administration: Wallace Brett Donham, A.B., LL.B.
Office, 17 University Hall. Office hours, Tuesday, Thursday, and Saturday, 11 A.M. to 12 P.M.

Dean of the Bussey Institution: William Morton Wheeler, PH.D., S.D.
Office, Bussey Institution, Forest Hills.

Dean of the Faculty of Divinity: William Wallace Fenn, A.M., D.D.

Secretary of the Faculty of Divinity: Henry Wilder Foote, A.M., S.T.B.

Dean of the Faculty of Law: Roscoe Pound, PH.D., LL.M., LL.D, D.C.L.
Office, Langdell Hall, Cambridge.

Secretary of the Faculty of Law: Richard Ames, A.B., LL.B.
Office, Langdell Hall, Cambridge. Office hours, daily, 9 A.M. to 1 P.M.

Dean of the Graduate School of Education: Henry Wyman Holmes, A.M.
Office: Lawrence Hall, Cambridge.

Dean of the Faculty of Medicine:
Dean of the Medical School:
} David Linn Edsall, M.D., S.D.
Office, Harvard Medical School, Longwood Avenue, Boston. Office hours, by appointment.

Assistant Dean of the Faculty of Medicine: Worth Hale, A.B., M.D.
Office, Harvard Medical School, Longwood Avenue, Boston. Office hours, Tuesday, Wednesday, and Thursday, 4 to 5 P.M., and by appointment.

Dean of the Dental School: Eugene Hanes Smith, D.M.D., A.M.
Office, Harvard Dental School, Longwood Avenue, Boston. Office hours, 11 A.M. to 12 M.; 4 to 5 P.M., daily except Saturdays, and by appointment.

Secretary to the Dean, and *Chief Clerk of the School:* Florence M. Lane.
Office, Harvard Dental School, Longwood Avenue, Boston. Office hours, daily, 9 A.M. to 1 P.M.; 2 to 5 P.M., except Saturdays; Saturdays, 9 A.M. to 12 M.

Curator of the Dental Museum: Adelbert Fernald, D.M.D.
The Museum is in the Dental School Building, Longwood Avenue. Office of the Curator, 420 Boylston St., Boston.

Librarian: JOHN WICKS COOKE, A.B., D.M.D.

The Library is in the Dental School Building. Office of the Librarian, 520 Beacon St., Boston.

Director of the Arnold Arboretum: CHARLES SPRAGUE SARGENT, A.B., LL.D.

The Arnold Arboretum is in Jamaica Plain. The nearest railway and telegraph station is Forest Hills, on the Boston and Providence Division of the N.Y., N.H., and Hartford Railroad.

Director of the Blue Hill Meteorological Observatory: ALEXANDER GEORGE MCADIE, A.M., S.M.

The Blue Hill Observatory is in Readville, Mass.

THE DENTAL SCHOOL

FACULTY OF MEDICINE *

ADDRESS†

ABBOTT LAWRENCE LOWELL, LL.B., LL.D., PH.D., PRESIDENT, 17 Quincy St., Cambridge.

DAVID L. EDSALL, M.D., S.D., DEAN, and *Jackson Professor of Clinical Medicine*, Mass. General Hospital.

WORTH HALE, M.D., *Assistant Dean of the Faculty of Medicine*, and *Associate Professor of Pharmacology*, 67 Lake View Ave., Cambridge.

CHARLES A. BRACKETT, D.M.D., *Professor of Oral Pathology*, 102 Touro St., Newport, R. I.

EUGENE H. SMITH, D.M.D., A.M., *Professor of Clinical Dentistry*, and *Dean of the Dental School*, 283 Dartmouth St.

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GEORGE E. BUSHNELL, M.D., Col., U. S. A., Retired, *Professor of Military Science and Tactics in the Harvard Medical School*, Bedford.

WILLIAM H. POTTER, D.M.D., *Professor of Operative Dentistry*, 16 Arlington St.

WILLIAM P. COOKE, D.M.D., *Professor of Preventive Dentistry and Oral Hygiene*, 520 Beacon St.

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ROBERT W. LOVETT, M.D., *John B. and Buckminster Brown Professor of Orthopedic Surgery*, 234 Marlborough St.

WILLIAM T. PORTER, M.D., LL.D., S.D., *Professor of Comparative Physiology*, Dover.

PAUL THORNDIKE, M.D., *Clinical Professor of Genito-Urinary Surgery*, 24 Marlborough St.

* Arranged, with the exception of the President, Dean, and Assistant Dean, on the basis of collegiate seniority.

† The address is Boston, unless otherwise stated.

MILTON J. ROSENAU, M.D., A.M., *Charles Wilder Professor of Preventive Medicine and Hygiene*, 65 Naples Road, Brookline.

J. BAPST BLAKE, M.D., *Assistant Professor of Surgery*, 161 Beacon St.

EUGENE A. CROCKETT, M.D., *Walter Augustus Lecompte Professor of Otology*, 298 Marlborough St.

HOWARD A. LOTHROP, M.D., *Assistant Professor of Surgery*, 101 Beacon St.

ALEXANDER QUACKENBOSS, M.D., *Williams Professor of Ophthalmology*, 143 Newbury St.

CHARLES A. PORTER, M.D., *Professor of Clinical Surgery*, 116 Beacon St.

EDWARD W. TAYLOR, M.D., *James Jackson Putnam Professor of Neurology*, 457 Marlborough St.

RICHARD C. CABOT, M.D., *Professor of Clinical Medicine*, 1 Marlborough St.

ALICE HAMILTON, M.D., *Assistant Professor of Industrial Medicine*, 227 Beacon St.

JAMES S. STONE, M.D., *Instructor in Surgery*, 234 Marlborough St.

PHILIP HAMMOND, M.D., *Instructor in Otology*, 483 Beacon St.

ELLIOTT P. JOSLIN, M.D., A.M., *Assistant Professor of Medicine*, 81 Bay State Road.

CALVIN G. PAGE, M.D., *Assistant Professor of Bacteriology*, 128 Marlborough St.

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ANDREW W. SELLARDS, M.D., *Assistant Professor of Tropical Medicine*, Harvard Medical School.

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REGINALD FITZ, M.D., *Associate Professor of Medicine*, Peter Bent Brigham Hospital.

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EDWIN J. KOHN, PH.D., *Assistant Professor of Physiological Chemistry*, 25 Follen St., Cambridge.

STANDING COMMITTEES FOR THE DENTAL SCHOOL

Building. — Drs. E. H. Smith and Hadley.

Courses of Study. — Dr. Smith (*Chairman*), Drs. Potter, L. M. S. Miner, Beckford, Thoma, Baker, and Dill.

Library. — Drs. Potter, Beckford, and J. W. Cooke.

Visiting Committee of the Dental School, appointed by the Board of Overseers. — Edward H. Bradford, Homer Gage, William S. Thayer, Thomas A. Forsyth, Charles P. Briggs.

Scholarships. — Drs. Smith, Miner, Hadley, and Potter.

THE DENTAL SCHOOL

BOSTON

GENERAL STATEMENT

The Harvard Dental School is established in Boston and was instituted by vote of the President and Fellows of Harvard College, July 17, 1867. The first session of the School opened on the first Wednesday in November, 1867, and continued until the following March. The first examination of candidates for the degree of the School was held March 6, 1869.

Instruction in this School is given throughout the academic year, by lectures, recitations, clinical teaching, and practical exercises, uniformly distributed. The programme of instruction is progressive, and occupies four years.

Comparative anatomy, anatomy, histology, physiology, chemistry, qualitative, volumetric, dental, organic and physiological, and metallurgy, general pathology, oral anatomy and histology (normal and pathological), and bacteriology are pursued in the Harvard Medical School.

The degree of Doctor of Dental Medicine is given, on recommendation by the Faculty of Medicine, on the completion of the four years' course. The degree is given in two grades.

It is the object of the Faculty to present a complete course of instruction in the theory and practice of Dentistry; and for this purpose a well-appointed laboratory and infirmary are provided. Clinical instruction is given by the professors and other instructors; and each day patients are assigned to the students, ensuring to all the opportunity of operating at the chair, and becoming trained by actual practice in all the operations demanded of the dentist.

The Administrative Board reserves the right to require the withdrawal of any student at any time whenever, in the opinion of the Board, it is manifest that he is incompetent for his work or for any reason he is unfitted to continue the course.

THE DENTAL BUILDING

The Dental School is situated at the corner of Longwood Avenue and Wigglesworth Street. The building has the latest hospital equipment and is used solely for hospital purposes. It contains a commodious infirmary, three operating rooms for oral surgery with connecting wards, prosthetic laboratory, X-ray laboratory, office of administration, library, museum, students' room and reception room.

It is connected by a subway with the Harvard Medical School buildings where all lectures are given.

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MARTIN B. DILL, A.B., D.M.D., *Assistant Professor of Operative Dentistry.*

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KURT H. THOMA, D.M.D., *Assistant Professor of Oral Pathology.*

HAROLD W. ALDEN, D.M.D., *Instructor in Operative Dentistry.*

RALPH E. GOVE, D.M.D., *Instructor in Orthodontia.*

STUART R. HAYMAN, D.M.D., *Instructor in Operative Dentistry.*

STERLING N. LOVELAND, D.M.D., *Instructor in Operative Dentistry.*

HARRISON L. PARKER, D.M.D., *Instructor in Operative Dentistry.*

J. MARK SMITH, D.M.D., *Instructor in Extracting and Anaesthesia.*

GEORGE N. ABBOTT, D.M.D., *Instructor in Orthodontia.*

W. IRVING ASHLAND, D.M.D., *Instructor in Operative Dentistry.*

RALPH B. EDSON, D.M.D., *Instructor in Operative Dentistry.*

HAROLD I. FISKE, D.M.D., *Instructor in Operative Dentistry.*

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GEORGE A. STAPLES, D.M.D., *Instructor in Ceramics.*

HAROLD E. TINGLEY, D.M.D., *Instructor in Operative Dentistry.*

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RAEBURN R. DAVENPORT, D.M.D., *Assistant in Operative Dentistry.*

FRED. G. ROLLINS, D.M.D., *Assistant in Operative Dentistry.*
HAMLET F. AITKEN, *Instructor in Drawing.*
FREDERICK A. TREVOR, D.M.D., *Assistant in Oral Pathology.*

REQUIREMENTS FOR ADMISSION

As candidates for the degree of Doctor of Dental Medicine, the School receives the following: —

1. Graduates in Arts or Science of approved colleges or scientific schools.
2. Students who have completed a year in Harvard College or in any approved college or scientific school.

(*a*) All applicants must present evidence that they have such knowledge of English as is ordinarily obtained in one year in an approved college (six semester hours); Biology (six semester hours); Chemistry (six semester hours); and twelve semester hours of electives from the following: —

A modern foreign language.	Shop practice.
Mathematics.	Economics.
History.	Psychology.
Technical drawing.	

(*b*) A certificate of the completion of one year of work in Physics in an approved high school or one year college Physics.

(*c*) A certificate of the completion of one year of work in Biology (Zoölogy and Botany) in an approved high school, or one year college Biology. Either Physics or Biology must be taken in college.

Graduates of recognized dental schools and reputable practitioners of dentistry who have never received a degree will be admitted without examination to the courses in Operative and Prosthetic Dentistry, but attendance on such courses does not entitle a student to examination for the degree. A certificate of attendance will be furnished when desired.

REGISTRATION

The academic year 1923–24 begins on Monday, September 24, 1923. All students register at the Dental School, Longwood Avenue, on that day, at 9 A.M.

DENTAL FACULTIES ASSOCIATION OF AMERICAN UNIVERSITIES

The schools holding membership in this Association are the University of California, School of Dentistry; Columbia University, School of Dentistry; Harvard University Dental School; University of Illinois, College of Dentistry; University of Iowa, School of Dentistry; University of Michigan, School of Dentistry; University of Minnesota, School of Dentistry; University of Nebraska, College of Dentistry; Ohio State University, College of Dentistry; Thomas W. Evans Museum and Dental Institute School of Dentistry, University of Pennsylvania; Tufts College Dental School; Washington University Dental School, St. Louis, Mo.; Dental School, Western Reserve University.

Applicants for advanced standing who have attended any of the above schools will be given credit for examinations passed in those schools, upon presentation of satisfactory credentials.

FOUR-YEAR COURSE

First Year

Freehand Drawing . . . . . .
Comparative Anatomy — Lectures and Laboratory . . .
Chemistry, Qualitative and Volumetric . . . . . .
(1 month General) Dental Chemistry, Metallurgy, and Organic Chemistry
Histology — Lectures and Laboratory . . . . . .
Anatomy — Lectures and Laboratory . . . . . .
Prosthetic Dentistry — Technique . . . . . .

Second Year

Chemistry, Physiological — Lectures and Laboratory . .
Physiology — Lectures and Laboratory . . . . . .
Operative Technique . . . . . .
Operative Lectures and Demonstrations . . . . . .
Preventive Dentistry and Oral Hygiene . . . . . .
Prosthetic Dentistry — Technique . . . . . .
Prosthetic Dentistry — Lectures and Demonstrations . .
Materia Medica — Lectures . . . . . .
Radiography — Lectures and Demonstrations . . . . . .

Third Year

Chemistry, Physiological and Clinical — Lectures and Laboratory . . . . . .
General Pathology — Lectures and Laboratory . . . . .
Bacteriology — Lectures and Laboratory . . . . . .
Extracting and Anaesthesia Conferences . . . . . .
Operative Dentistry — Lectures and Demonstrations . .
Operative Dentistry — Practice . . . . . .
Therapeutics — Lectures . . . . . .
Prosthetic Dentistry — Lectures, Demonstrations and Practice (includes Orthodontia technique, Inlay technique, and Crown and Bridge technique) . . . . . .
Surgery and Surgical Pathology — Lectures . . . . . .
Oral Anatomy, Pathology and Histology — Lectures and Laboratory . . . . . .
Radiography — Lectures (Demonstrations in sections) . .
Periodontoclasia — Lectures and Demonstrations . . . .

Fourth Year

Dental Pathology — Lectures . . . . . .
Operative Dentistry — Demonstrations . . . . . .
Operative Dentistry — Practice . . . . . .
Operative Surgery — Sections . . . . . .
Orthodontia — Lectures . . . . . .
Orthodontia — Practice . . . . . .
Inlay — Practice . . . . . .
Prosthetic Dentistry, including Crown and Bridge — Lectures, Demonstrations, Practice . . . . . .
Physical Diagnosis and Clinical Oral Surgery . . . . .
Clinical Oral Surgery . . . . . .
Dental Jurisprudence and Conduct of Practice . . . . .
Syphilology — Lectures and Conferences . . . . . .
Neurology — Lectures . . . . . .
Extracting and Local Anaesthesia — Demonstrations and Lectures . . . . . .
Medico Dental Diseases — Lectures . . . . . .

METHODS OF INSTRUCTION

Dental and Physiological Chemistry

H. Carlton Smith, Ph.G., *Assistant Professor of Dental Chemistry.*
Fred M. Rice, A.M., *Instructor in Chemistry.*

As dentistry is more and more coming to be considered a specialty of medicine, it becomes necessary to broaden the chemical field covered by the dental curriculum to include not only the metallurgy and qualitative analysis, which a few years ago constituted nearly the whole of Dental Chemistry, but also practically all the branches required by the medical schools, with emphasis directed of course to dental rather than medical requirements. In recognition of this fact the chemistry course comprises a study of the following subjects, taken in about the order named: —

First Year. — A four months' course of twenty hours a week comprising the following: —

Qualitative Analysis of solutions and solids, including examination of alloys, dental cements, etc.

The Principles of Volumetric Analysis in sufficient detail to enable a student to make quantitative examination of a dental alloy or determine the strength of hydrogen peroxide solutions.

Organic Chemistry to make possible an intelligent study of physiological chemistry.

Second Year. — A two months' course of twelve hours a week in Physiological Chemistry taking up in detail a study of food substances, digestion and analysis of body fluids, and the more recent methods in use in physiological laboratories.

Third Year. — A short course in Clinical Chemistry designed to show the relation existing between systemic and oral conditions.

During the course a short chemical thesis is required of each student, which necessitates the careful study of current dental literature and a consideration of the various theories regarding dental decay, erosion, etc.

Daily lectures and laboratory work, with frequent oral quizzes and written tests constitute the methods of instruction.

Text-books. — Chemistry for Dental Students, third edition, Smith. Seventh edition of Practical Physiological Chemistry, Hawk. Dental Metallurgy, Hepburn. Organic Chemistry, Norris.

Reference Books. — Holland's Medical Chemistry and Toxicology. Ogden, Examination of Urine. Hammarsten, Physiological Chemistry. Stieglitz, Qualitative Analysis. Heitzman, Urinary Analysis and Diagnosis. Pickerell, The Prevention of Dental Caries and Oral Sepsis.

Anatomy

John L. Bremer, M.D., *Associate Professor of Histology.*
Frederic T. Lewis, M.D., *Associate Professor of Embryology.*
John Warren, M.D., *Associate Professor of Anatomy.*
Z. Boylston Adams, M.D., *Associate in Anatomy.*
David Cheever, M.D., *Associate in Anatomy.*
Harris P. Mosher, M.D., *Associate in Anatomy.*
Stanley Cobb, M.D., *Associate in Anatomy.*
Robert M. Green, M.D., *Instructor in Anatomy.*
Samuel R. Meaker, M.D., *Instructor in Histology.*
Albert A. Shapira, M.D., *Instructor in Anatomy.*
Frank A. Hamilton, M.D., *Assistant in Anatomy.*
Torr W. Harmer, M.D., *Assistant in Anatomy.*
Reginald D. Margeson, M.D., *Assistant in Anatomy.*
William R. Morrison, M.D., *Assistant in Anatomy.*
Donald Munro, M.D., *Assistant in Anatomy.*
Harold V. Hyde, M.D., *Assistant in Anatomy.*

Roy G. Spurling, *Austin Teaching Fellow in Histology.*
John G. Downing, M.D., *Teaching Fellow in Histology.*
Stephen J. Maddock, *Teaching Fellow in Histology.*
George F. Sykes, *Teaching Fellow in Histology.*

Comparative Anatomy

——— ———, *James Stillman Professor of Comparative Anatomy.*
Edward A. Boyden, Ph.D., *Assistant Professor of Comparative Anatomy.*
Carl E. Johnson, *Assistant in Comparative Anatomy.*

The department of anatomy occupies the Morgan Anatomical Building; the dissecting rooms are in the wing designated B I; and the laboratories for histology, embryology, and comparative anatomy, in the wing B II. In addition to the numerous class-rooms, which are well lighted and thoroughly equipped, there are ample accommodations for advanced students, and unusual facilities are at the disposal of qualified investigators. Further information in regard to advanced or special studies may be had upon application to Professor Warren or Professor Lewis. The regular courses for dental students are described below.

Comparative Anatomy of Vertebrates. This is an advanced course in vertebrate anatomy which presupposes a general acquaintance with representative groups of animals and an elementary knowledge of biological principles. It is primarily a laboratory course (occupying the mornings of

November and December) built around the dissection of two animals — the dogfish and the cat. Its purpose is to teach those principles of vertebrate structure which are indispensable to the study of human anatomy, histology, embryology, and physiology. The dogfish is selected for dissection because it exhibits in simplest form the ground plan of the vertebrate body. The work of the student is supplemented by lectures or demonstrations which analyze in an elementary way the microscopic structure of organs, trace their progressive development through the vertebrate series and wherever possible correlate this with the gross steps in the development of the human embryo. The dissection of the cat is used to familiarize the student with the general features of mammalian anatomy before taking up the detailed study of the human body. When a student has completed this course it is hoped that he will have acquired a basic knowledge of the complicated mechanism which constitutes a higher vertebrate — what each part is made up of, the way it works, and how it came to be what it is as interpreted by its phylogeny and its ontogeny.

November, and December (to the Recess) HOURS

Lectures. Professor BOYDEN. *Five times a week and alternate Saturdays.* 41

Laboratory work. Professor BOYDEN, Messrs. SYKES and JOHNSON. *Three hours a day, five times a week and alternate Saturdays, as above.* 123

Gross Anatomy. Beginning on Thursday, February 1, and continuing to the April recess, the class will have systematic daily lectures or demonstrations on gross anatomy at two o'clock, followed by dissection in the laboratory until 5.30. The dissection is supervised by the assistants in the course, who will hold frequent oral quizzes. The study of the bones and joints will be conducted simultaneously with the dissection by means of specimens which will be issued in boxes to each student. In this manner the study of the anatomy of the entire body will be completed at the beginning of the April recess. Special emphasis is laid on the study and dissection of the head and neck, proportionately more time being devoted to this portion of the course than in the case of medical students. Special attention is given to the cavities of the head and face, and each student is expected to study and draw carefully specimens and frozen sections of the head in addition to his own dissection.

The week following the April recess will be devoted to a complete review of the entire course.

Text-books. — Piersol's Human Anatomy is recommended, for which either Cunningham's Practical Anatomy or Gray's Anatomy may be substituted; and for collateral reading — Dixon's Manual of Human Oste-

ology, Ivy's Applied Anatomy for Dental Students, and Treves's Applied Anatomy.

February, March, and April HOURS

Lectures or demonstrations. Drs. GREEN and SHAPIRA. *Five times a week.* 56

Dissection. Drs. SHAPIRA, MUNRO, and HYDE. *Two and one-half hours a day, five times a week (afternoons).* 140

Microscopic Anatomy. This course begins Thursday, February 1, and occupies the week-day mornings, except Saturday, throughout the second term. The first month is devoted to the study of cell-structure and the fundamental tissues. This is followed by a month of embryology, special stress being laid upon the origin and growth of the different organs, as seen in three selected embryos. The third month is spent in the study of the adult organs, and during the last month the work covers the central nervous system and the organs of special sense. The Text-book of Histology, arranged upon an embryological basis, by Lewis and Stöhr. 2d edition, will be used, and collateral reading will be recommended from time to time.

Second Half-Year HOURS

Lectures. Dr. MEAKER. *Five times a week.* 80

Laboratory. Dr. MEAKER and Mr. JOHNSON. *Three hours a day, five times a week.* 240

PHYSIOLOGY

WALTER B. CANNON, M.D., *George Higginson Professor of Physiology.*
CECIL K. DRINKER, M.D., *Associate Professor of Applied Physiology.*
ALEXANDER FORBES, M.D., *Associate Professor of Physiology.*
JOSEPH C. AUB, M.D., *Assistant Professor of Physiology.*
ALFRED C. REDFIELD, PH.D., *Assistant Professor of Physiology.*
PERCY G. STILES, Ph.D., *Assistant Professor of Physiology.*
PHILIP DRINKER, A.B., *Instructor in Applied Physiology.*
LAWRENCE T. FAIRHALL, PH.D., *Instructor in Applied Physiology.*
WALLACE O. FENN, Ph.D., *Instructor in Physiology* (Absent).
JOHN A. KEY, M.D., *Instructor in Applied Physiology.*
FRED R. GRIFFITH, A.M., *Instructor in Physiology.*
ROBERT M. THOMPSON, *Assistant in Applied Physiology.*
HENRY O. VEACH, B.S., *Teaching Fellow in Physiology.*
JAMES P. BAUMBERGER, Sc.D., *Teaching Fellow in Physiology.*

The instruction in Physiology is based, as far as possible, on observations made by the students in laboratory experiments. The experiments are selected to impress the student with the methods and the most important

facts in the various divisions of the subject. Physiological processes not readily observed in the laboratory the student learns with an insight derived from practical experience in experimentation. The arrangement of the experiments is in general such that the student first learns of what activity an organ or tissue is capable, next how certain factors condition or modify that activity, and finally what may be the effect of the activity. The experiments have also been so arranged as to place those with more general bearing first, and those with special interest later. Thus reference to previously acquired information becomes more and more possible as the course proceeds.

The amount of time devoted to laboratory exercises is approximately one hundred and sixty hours. Each student is required to preserve a record of his experiments and observations in a laboratory note-book. These records are examined and criticized from day to day.

Observations of his own experiments by the student are supplemented by numerous special demonstrations. These exercises, some of which are performed by students under the direction of an assistant, are closely correlated with the other objective instruction. The function of the depressor nerve, motor localization in the cerebral cortex, the action of secretin and of enterokinase, and the effects of lymphagogues are examples of subjects which are demonstrated.

The facts observed in the laboratory and in the demonstrations are discussed in lectures. The lectures, about sixty in number, are informal discussions permitting questions by the students or by the instructor. In these discussions the laboratory experiments are correlated with one another and with the body of physiological knowledge.

In order that students shall review the work repeatedly as the course proceeds, and also that the instructors may judge the efficiency of the teaching, the class is divided into sections and quizzed orally every week by the instructing staff. At the end of each general division of the subject, as, for example, the nervous system, or the circulation, a written test is given. Usually five questions are asked; as examples the following are illustrative: What are the effects of stimulating the vasoconstrictor nerves of any particular organ? Cite morphological and physiological evidence for segmental arrangement of the nervous system. Discuss cortical localization. The examination books are returned, corrected, to the students.

If in the quizzes and tests many students show that certain points are not clearly understood, these points are briefly discussed again before the class. If a student reveals by his answers general failure to grasp the subject intelligently, he is personally conferred with regarding the character of his work. Such conferences are held after the first six weeks of

the course, and usually result in a better understanding between the instructor and the student, and frequently in a marked improvement in the student's efforts.

Text-books. — No special text-book is required, but the following books are recommended for reading in connection with the course: Starling, Human Physiology. Howell, Text-book of Physiology. Stewart, Manual of Physiology. Martin, The Human Body.

October, November, and December.	HOURS
Laboratory experiments. Asst. Professor STILES, and Dr. BAUMBERGER. *Daily except Saturdays.*	150
Quizzes (14). *One hour a week.*	12
Written tests (3). *One hour a month.*	3
Lectures (60). Asst. Professor STILES, Dr. CANNON, and Dr. BAUMBERGER.	60
Special demonstrations. Dr. BAUMBERGER.	15

INVESTIGATION

Any student, properly qualified, who desires to engage in physiological research will be welcomed into the laboratory and will be offered every facility for research which the laboratory affords.

PATHOLOGY

S. BURT WOLBACH, M.D., *Shattuck Professor of Pathological Anatomy.*
JAMES H. WRIGHT, M.Dr, S.B., *Assistant Professor of Pathology.*
GEORGE H. HANSMAN, M.D., *Instructor in Pathology.*
MICHAEL J. CONROY, M.D., *Instructor in Pathology.*
TREVOR G. BROWNE, M.D., *Assistant in Pathology.*
JAMES R. WILSON, M.D., *Assistant in Pathology.*

REQUIRED COURSES

Second Year. — The course in Pathology consists of laboratory work and lectures. The basis of the laboratory work is a systematic course in pathological histology. In connection with this there are demonstrations of fresh material and museum specimens and experiments on animals bearing on the subjects studied. For demonstrations and experimental work the students are divided into small sections. The demonstrations and experimental work are given in connection with the subjects which are being studied, in rooms adjoining the main laboratory which are adequately provided with apparatus. Lectures are given three days in the week by Drs. WOLBACH and WRIGHT. The object of the lectures is to expand and coördinate the knowledge which the student obtains by the study of ma-

terial and to introduce important recent advances not yet incorporated in text-books. No attempt is made to separate the subject of Pathology into general pathology and pathological anatomy, but the subject is studied as a whole. In teaching the student is taught methods of work, is given material, and directed, but he is taught to work independently. Tumors and other material coming from the surgical clinics are made full use of in the course. Conferences and recitations will occasionally be substituted for regular laboratory work.

THIRD YEAR HOURS

Lectures. Drs. WOLBACH and WRIGHT. *Mondays, Wednesdays, and Fridays, October through March.* 75

BACTERIOLOGY

S. BURT WOLBACH, M.D., *Shattuck Professor of Pathological Anatomy, and Acting Head, Department of Bacteriology.*

JACQUES BRONFENBRENNER, Ph.D., D.P.H., *Assistant Professor of Bacteriology.*

CLEAVELAND FLOYD, M.D., *Silas Arnold Houghton Assistant Professor of Bacteriology.*

CALVIN G. PAGE, M.D., *Assistant Professor of Bacteriology.*

WILLIAM T. BOVIE, Ph.D., *Instructor in Bacteriology.*

LESLEY H. SPOONER, M.D., *Instructor in Bacteriology.*

PHILIP CASTLEMAN, M.D., *Instructor in Bacteriology.*

ALBERT E. STEELE, M.D., *Instructor in Bacteriology.*

HORACE K. BOUTWELL, M.D., *Assistant in Bacteriology.*

FRANCIS B. GRINNELL, M.D., *Assistant in Bacteriology.*

HARRY WEISS, Ph.D., *Assistant in Bacteriology.*

WALTER W. FRAY, M.D., *Austin Teaching Fellow in Bacteriology.*

Required bacteriology is taught by lectures and practical laboratory work. The lectures treat of the general subject and of methods of practical work. In the laboratory each student has an opportunity to become familiar with the simpler methods of manipulation and staining which are of especial clinical value, and with the more prominent of the pathogenic bacteria.

Lectures. Professor WOLBACH, Drs. BRONFENBRENNER, FLOYD, SPOONER, PAGE, and CASTLEMAN. *Mondays, Wednesdays, and Fridays, first half-year.*

Laboratory work. Professor WOLBACH, and Drs. FLOYD, PAGE, BRONFENBRENNER, SPOONER, CASTLEMAN, STEELE, BOUTWELL, and FRAY. *Two hours, Mondays, Wednesdays, and Fridays, first half-year.*

Oral Anatomy, Oral Histology and Pathology

Kurt H. Thoma, D.M.D., *Assistant Professor of Oral Pathology.*
Leonard D. Nathan, D.M.D., *Instructor in Oral Pathology.*
Edward C. Hoey, D.M.D., *Instructor in Operative Dentistry.*
Frederick A. Trevor, D.M.D., *Assistant in Oral Pathology.*

This course is given two afternoons a week during the second half of the third year. It consists of lectures and laboratory exercises. The development of the face and mouth as well as the teeth and salivary glands is taken up first. This is followed by a microscopic study of the soft and hard tissues of the end organs of the mouth. After the student has been made familiar with the structure of the normal tissues, the various pathological conditions are studied.

The embryological, histological, and pathological work is principally taught by means of microscopic study, each student being furnished with a set of slides, from which drawings are made. The knowledge gained by a parallel study of the histology of healthy and diseased tissues is not only invaluable in diagnosis, but is extremely important in developing an understanding of medical and surgical therapeutic measures. The lectures are supplemented by the exhibition of lantern slides of photographs and Roentgenograms of anatomical and pathological specimens and microscopic sections.

Collateral Reading. — Endelman and Wagner, General and Dental Pathology. Hopewell-Smith, Normal and Pathological Histology of the Mouth, Vols. I and II. Thoma, Oral Roentgenology.

Lectures and demonstrations. Assistant Professor Thoma. *Twice a week for four months.*

Laboratory exercises. Assistant Professor Thoma, Instructors Nathan, and Hoey, Assistant Trevor. *Twice a week for four months.*

Operative Dentistry

Eugene H. Smith, D.M.D., A.M., *Professor of Clinical Dentistry.*
Timothy O. Loveland, D.M.D., *Instructor in Operative Dentistry.*
Albert B. Jewell, D.M.D., *Instructor in Operative Dentistry.*
William H. Potter, A.B., D.M.D., *Professor of Operative Dentistry.*
Charles H. Abbot, D.M.D., *Instructor in Operative Dentistry.*
Walter I. Brigham, D.D.S., *Instructor in Operative Dentistry.*
Forrest G. Eddy, D.M.D., *Assistant Professor of Clinical Dentistry.*
George H. Wright, D.M.D., *Assistant Professor of Dentistry.*
Edwin C. Blaisdell, D.M.D., *Assistant Professor of Clinical Dentistry.*

Thomas W. Wood, Jr., A.M., D.M.D., *Instructor in Operative Dentistry.*

Benjamin H. Codman, D.M.D., *Instructor in Operative Dentistry.*

Arthur W. Eldred, D.M.D., *Instructor in Operative Dentistry.*

Frank T. Taylor, D.M.D., *Assistant Professor of Clinical Dentistry.*

Joseph T. Paul, D.M.D., *Instructor in Operative Dentistry.*

Thomas B. Hayden, D.M.D., *Instructor in Operative Dentistry.*

Henry C. Spencer, D.M.D., *Instructor in Operative Dentistry.*

William D. Squarebrigs, D.M.D., *Instructor in Operative Dentistry.*

John T. Timlin, D.M.D., *Instructor in Operative Dentistry.*

Ernest E. Carle, D.M.D., *Instructor in Operative Dentistry.*

Arthur A. Libby, D.M.D., *Instructor in Operative Dentistry.*

David F. Spinney, D.M.D., *Instructor in Operative Dentistry.*

Leslie H. Naylor, D.M.D., *Instructor in Operative Dentistry.*

Samuel L. D. Randall, D.M.D., *Instructor in Operative Dentistry.*

Arthur V. Rogers, D.M.D., *Instructor in Operative Dentistry.*

Walter A. Davis, D.M.D., *Instructor in Operative Dentistry.*

James E. Heap, D.D.S., *Instructor in Operative Dentistry.*

Charles G. Pike, D.M.D., *Instructor in Operative Dentistry.*

Charles B. Burnham, D.M.D., *Instructor in Operative Dentistry.*

Frank R. McCullagh, D.M.D., *Instructor in Operative Dentistry.*

Martin B. Dill, A.B., D.M.D., *Assistant Professor of Operative Dentistry.*

Henry Gilman, A.B., D.M.D., *Instructor in Operative Dentistry.*

Frank P. Simpson, D.M.D., *Instructor in Operative Dentistry.*

William H. Weston, D.M.D., *Instructor in Crown and Bridge Prosthesis and Operative Dentistry.*

Harry S. Clark, S.B., D.M.D., *Instructor in Operative Dentistry.*

Eugene B. Wyman, D.M.D., *Instructor in Operative Dentistry.*

Horatio LeS. Andrews, D.M.D., *Instructor in Operative Dentistry.*

Arthur S. Crowley, D.M.D., *Instructor in Operative Dentistry.*

Ernest V. L. Whitchurch, D.M.D., *Instructor in Operative Dentistry.*

Roger B. Taft, D.M.D., *Instructor in Operative Dentistry.*

Herman E. Hichborn, D.M.D., *Instructor in Operative Dentistry.*

Harold W. Alden, D.M.D., *Instructor in Operative Dentistry.*

Stuart R. Hayman, D.M.D., *Instructor in Operative Dentistry.*

Sterling N. Loveland, D.M.D., *Instructor in Operative Dentistry.*

Harrison L. Parker, D.M.D., *Instructor in Operative Dentistry.*

W. Irving Ashland, D.M.D., *Instructor in Operative Dentistry.*

George P. Pendleton, D.M.D., *Instructor in Operative Dentistry.*

Ralph B. Edson, D.M.D., *Instructor in Operative Dentistry.*

Harold I. Fiske, D.M.D., *Instructor in Operative Dentistry.*

Stuart H. Vaughan, D.M.D., *Instructor in Operative Dentistry.*
Frank H. Cushman, S.B., D.M.D., *Instructor in Operative Dentistry.*
Ralph C. Curtis, D.M.D., *Instructor in Operative Dentistry.*
Harold L. Peacock, D.M.D., *Instructor in Operative Dentistry.*
Ralph M. Towle, D.M.D., *Assistant in Operative Dentistry.*
Harold A. Carnes, D.M.D., *Assistant in Operative Dentistry.*
Francis P. Devlin, A.B., D.M.D., *Instructor in Operative Dentistry.*
Edward C. Hoey, D.M.D., *Instructor in Operative Dentistry.*
Alister I. MacIver, D.M.D., *Assistant in Operative Dentistry.*
Raymond P. Cassidy, D.M.D., *Assistant in Operative Dentistry.*
Allan M. Johnson, A.B., D.M.D., *Instructor in Operative Dentistry.*
Paul B. LeBaron, D.M.D., *Instructor in Operative Dentistry.*
Joseph W. Nevins, D.M.D., *Instructor in Operative Dentistry.*
Robert G. Rae, D.M.D., *Instructor in Operative Dentistry.*
Harold E. Tingley, D.M.D., *Instructor in Operative Dentistry.*
Gordon Hall, D.M.D., *Instructor in Operative Dentistry.*
Oswald F. Banks, D.M.D., *Instructor in Operative Dentistry.*
Earle L. Bradway, D.M.D., *Instructor in Operative Dentistry.*
Leon E. Dulac, D.M.D., *Instructor in Operative Dentistry.*
Blake Lombard, D.M.D., *Instructor in Operative Dentistry.*
Roy Y. Raymond, D.M.D., *Instructor in Operative Dentistry.*
Benjamin D. Wolman, D.M.D., *Instructor in Operative Dentistry.*
Raeburn P. Davenport, D.M.D., *Assistant in Operative Dentistry.*

The instruction in Operative Dentistry consists of lectures, demonstrations, and clinical instruction, and is systematically distributed in the last three years of the course.

In the Sophomore year, the student commences by preparing cavities in large plastic teeth in order to acquire knowledge of approved cavity form. Instruction in the use and care of instruments then follows, with work on the odontotype. Root canal work is taught on extracted teeth. As soon as the required work on the odontotype has been completed, patients are assigned and the simpler operations, such as prophylactic treatments and the filling of simple cavities with plastics, are performed in the mouth.

In the Junior year, the lectures are more advanced and cover the subject in greater detail. The student undertakes the more difficult operations, including root canal work, and, in the last half-year, gold foil fillings.

In the Senior year, inlay work is added to the curriculum and the student becomes proficient in all types of work accredited to Operative Dentistry.

Also in the senior year lectures are given on the Theory and Practice of Dentistry; the Conduct of Practice and Jurisprudence; the Relations of Dental and Medical Diseases, such as

Diseases of the nose, throat, and sinuses.
The neuralgias associated with the fifth nerve.
The various forms of arthritis, and treatment.
A specialist's study of cardiac, pleural, and renal diseases and their relation to focal infections.
Methods of coöperation with Public Health Departments in the Work on Oral Hygiene.

Clinical Lectures on Operative Dentistry. — These exercises are intended to demonstrate the individual methods of the lecturers. They include brief lectures, the exhibition of models, and practical operations upon patients. During the last half of the senior year lectures are given on the conduct of Practice and Jurisprudence.

Text-books. — Black, Operative Dentistry. American Text-Book of Operative Dentistry. American System of Dentistry. Marshall, Oral Surgery. Marshall, Operative Dentistry. Johnson, Text-Book of Operative Dentistry. Hewitt, Anaesthetics and Their Administration. Thoma, Oral Anaesthesia.

Lectures. Professor Smith. *Once a week for fifteen weeks.* 15
Assistant Professor Wright. *Once a week for fifteen weeks.* 15
Assistant Professor Dill. *Once a week throughout the year.* 30

Practical work. Drs. T. O. Loveland, Jewell, Abbot, Eddy, Brigham, Blaisdell, Wood, Codman, Eldred, Taylor, Paul, Hayden, Spencer, Squarebrigs, Timlin, Carle, Libby, Spinney, Naylor, Randall, Rogers, Davis, Heap, Pike, Burnham, McCullagh, Dill, Gilman, Simpson, Weston, Clark, Wyman, Andrews, Crowley, Whitchurch, Taft, Hichborn, Alden, Hayman, S. N. Loveland, Edson, Fiske, Parker, Ashland, Pendleton, S. H. Vaughan, Cushman, Curtis, Towle, Peacock, Carnes, Devlin, Hoey, MacIver, Cassidy, A. M. Johnson, LeBaron, Nevins, Rae, Tingley, Hall, Banks, Bradway, Dulac, Lombard, Raymond, Wolman, and Davenport.

Pyorrhoea Alveolaris

Ned A. Stanley, D.M.D., *Instructor in Treatment of Pyorrhoea.*
Clarence B. Vaughan, D.M.D., *Instructor in Operative Dentistry.*

Pyorrhoea Alveolaris receives special attention. The etiology of the disease and its systemic treatment are considered in the lectures, and an operative course in instrumentation is given to the class in sections.

Clinics. *Three hours each week throughout the year.* 96

X-Ray Department. — Dwight M. Clapp Foundation

Earle C. Cummings, D.M.D., *Instructor in Roentgenology.*

A course of lectures on Roentgenology supplemented by clinical demonstrations and practical work.

It is aimed to touch briefly upon the subject in general, while giving special attention to the use of the X-ray in Dentistry. The interpretation of Dental radiographs is taken up in detail, and the value of the X-ray as a diagnostic agent is dwelt upon and illustrated with practical cases.

Collateral Reading. — Journal of American Roentgen-Society. Kassabrau's Electro-Therapeutic and Roentgen Rays. Raper's Dental Radiography.

Demonstrations and Practical Work. Dr. Cummings. *Five times a week (afternoons) throughout the fourth year.*

Lectures and Demonstrations. *Once a week for sixteen weeks in the third year.*

Lectures. *Ten times during the second year.*

Extraction and Anaesthesia

William H. Potter, A.B., D.M.D., *Professor of Operative Dentistry.*

Edwin L. Farrington, D.M.D., *Instructor in Extracting and Anaesthesia.*

Oliver P. Wolfe, D.M.D., *Instructor in Extracting and Anaesthesia.*

Charles A. Jameson, D.M.D., *Instructor in Anaesthesia.*

Joseph A. Ring, D.M.D., *Instructor in Extracting and Anaesthesia.*

J. Mark Smith, D.M.D., *Instructor in Extracting and Anaesthesia.*

Frank H. Leslie, D.M.D., *Instructor in Extracting and Anaesthesia.*

John H. Jaffar, D.M.D., *Instructor in Extracting and Anaesthesia.*

William J. Kenefick, D.M.D., *Instructor in Extracting and Anaesthesia.*

Fred G. Rollins, D.M.D., *Assistant in Extracting and Anaesthesia.*

Harold A. Kent, D.M.D., *Instructor in Extracting and Anaesthesia.*

Russell S. Phillips, D.M.D., *Assistant in Extracting and Anaesthesia.*

The subject of extraction is treated in the lectures upon operative dentistry by Professor Potter. This treatment deals first with the anatomy of the roots and the root sockets and then the lines of least resistance along which teeth should be removed from their sockets. The technique of tooth extraction is explained and illustrated upon models.

Anaesthesia as induced by nitrous oxide, nitrous oxide and oxygen, ether and somnoforme is described in lectures which deal with symptoms produced and technique of administration.

Local anaesthesia by the injection of novocaine according to the most approved methods is taught.

Practical instruction in extracting and anaesthesia is available to students every day in the year with the exception of Sundays and holidays. Special attention is given to continuous anaesthesia by the use of nitrous oxide and oxygen, and students have ample opportunity to become familiar with operations under this system.

Local Anaesthesia. Demonstrations. Dr. JAMESON. *Once a week, throughout the year.*

Extraction and Local Anaesthesia. Lectures. Dr. POTTER. *Once a week for sixteen weeks.* 16

Clinical Demonstrations. *Once a week, throughout the fourth year.*

Demonstrations. *Once a week for sixteen weeks, during third year.*

Extracting Clinics. Professor POTTER, Drs. WOLFE, FARRINGTON, RING, J. MARK SMITH, LESLIE, JAFFAR, KENEFICK, ROLLINS, KENT, and PHILLIPS. *Two hours a day, throughout the year.* 480

Clinical Demonstrations of Nitrous Oxide and Oxygen Anaesthesia. Professor POTTER. *Once a week throughout the year.* 64

Course in Physical Diagnosis. The course includes examinations by the methods of inspection, percussion, and auscultation of the patients, supplemented by an examination of the blood pressure. It enables the student to distinguish such cases of the heart as would be unsafe to subject to the shock of surgical procedures or anaesthetics.

PLATE, CROWN AND BRIDGE, AND INLAY

FRED A. BECKFORD, D.M.D., *Professor Prosthetic Dentistry.*

NORMAN B. NESBETT, D.M.D., *Assistant Professor of Prosthetic Dentistry.*

AMOS I. HADLEY, D.M.D., *Assistant Professor of Ceramics.*

CHARLES W. BERRY, S.B., D.M.D., *Instructor in Prosthetic Dentistry.*

WILSON C. DORT, D.M.D., *Instructor in Prosthetic Dentistry.*

WILLIAM H. WESTON, D.M.D., *Instructor in Crown and Bridge Prosthesis and Operative Dentistry.*

FREDERICK J. SULLIVAN, D.M.D., *Instructor in Prosthetic Dentistry.*

CHARLES W. GOETZ, D.M.D., *Instructor in Prosthetic Dentistry.*

WALTER E. YOUNG, D.M.D., *Instructor in Prosthetic Dentistry.*

ARTHUR L. CAVANAGH, D.M.D., *Instructor in Prosthetic Dentistry.*

WALTER H. CHAMBERS, D.M.D., *Instructor in Prosthetic Dentistry.*

LOUIS R. BRANCHAUD, D.M.D., *Instructor in Prosthetic Dentistry.*

RICHARD B. SMITH, D.M.D., *Instructor in Prosthetic Dentistry.*

GEORGE A. STAPLES, D.M.D., *Instructor in Ceramics.*

Arthur W. Hicks, D.M.D., *Instructor in Prosthetic Dentistry.*
George P. Phillips, A.B., D.M.D., *Instructor in Prosthetic Dentistry.*
Norman W. Swett, D.M.D., *Instructor in Prosthetic Dentistry.*
Spurgeon de W. Turner, D.M.D., *Instructor in Prosthetic Dentistry.*
Rolla B. Sargent, D.M.D., *Assistant in Prosthetic Dentistry.*

Lectures and demonstrations to the classes in sections, followed by practical work in the laboratory: the manner in which mineral teeth are constructed, the principles and method of carving and furnace-work, and all compounds used for artificial teeth; and the manner in which gold and silver plates, crowns and bridges are prepared and adapted to the mouth; the use of rubber and other articles as bases. It is the aim to teach not only the mere mechanical processes of Dentistry, but that combination of art with mechanism which enables the practitioner to effect so much in restoring the symmetry of the face and usefulness of the teeth, where they have been lost or impaired by accident or disease.

Third and Fourth Years

Lectures — Dr. Beckford, *once a week for thirty-two weeks.*
Dr. Nesbett, *once a week for twenty-four weeks.*

Demonstrations — Drs. Hadley and Staples, *once a week, in sections, throughout the year.*

Demonstrations and Clinics — Dr. Beckford, *four times a week, throughout the year.*
Dr. Nesbett, *once a week, throughout the year.*

Assisted by Drs. Berry, Weston, Sullivan, Goetz, Young, Cavanagh, Chambers, Branchaud, R. B. Smith, Swett, Turner, and Sargent.

Third Year

Demonstrations — Dr. Phillips, *four times a week during September, October, and November.*
Dr. Hicks, *twice a week during October, November, and December; five times a week during January, and three times a week from February throughout the year.*

Second Year

Demonstrations — Dr. Phillips, *five times a week from January 3 throughout the year.*

First Year

Lectures — Dr. Dort, *twice a week during January and May.*
Demonstrations — Dr. Dort, *five times a week during January and May, and once a week from February throughout the year.*
Dr. Wilson C. Dort, *Instructor in Prosthetic Dentistry.*
—— ——, *Assistant in Prosthetic Dentistry.*
—— ——, *Assistant in Prosthetic Dentistry.*

Text-books. — Wilson, Dental Prosthesis. Richardson, Mechanical Dentistry. Turner's Prosthetic Dentistry. Kingsley, Oral Deformities. Hovestadt, Principles of Technique in Crowns and Bridges. Harris, Principles and Practice. Harris, Dictionary of Dentistry. Evans, Crown and Bridge Work. Goslee, Principles and Practice of Crowning Teeth. Byram, Principles and Practice of Filling Teeth with Porcelain. Bruck, The Filling of Teeth with Porcelain. Peck, Porcelain Inlays.

Orthodontia

Lawrence W. Baker, D.M.D., *Professor of Orthodontia.*
Horace L. Howe, D.M.D., *Assistant Professor of Clinical Orthodontia.*
Adelbert Fernald, D.M.D., *Instructor in Orthodontia.*
Ralph E. Gove, D.M.D., *Instructor in Orthodontia.*
Fred R. Blumenthal, D.M.D., *Instructor in Orthodontia.*
Cleophas P. Bonin, D.M.D., *Instructor in Orthodontia.*
George N. Abbott, D.M.D., *Instructor in Orthodontia.*
Adrian P. Brodeur, D.M.D., *Instructor in Orthodontia.*

Orthodontia is taught by lectures and by practical work in the Infirmary. In the third year the class is divided into sections and the students are made familiar with the principles of normal occlusion and the various apparatus for the correction of irregularities. In the fourth year the diagnosis and treatment of the various forms of malocclusions and the etiology are taught by lectures and recitations. Each senior student is obliged to take not less than two cases of irregularities and carry them to completion under the direction of the professor in charge and his associates. On Tuesday and Friday afternoons conferences are held on the cases under treatment.

Text-books. — Angle, Malocclusion of the Teeth (Seventh Edition) Collateral reading. Johnson's Operative Dentistry (Third Edition) Section xxxiii by Herbert A. Pullen. Dewey, Practical Orthodontia (Third Edition). Lischer, Orthodontics. Macewen, The Growth of Bone.

Lectures. Professor Baker. *Once a week for sixteen weeks.*

Clinics. Drs. Fernald, Howe, Gove, Blumenthal, Bonin, Abbott, and Brodeur.

Seven hours a week throughout October and November. Four hours a week throughout balance of year. 147

Special Orthodontia Instruction for Graduates

Alfred Paul Rogers, D.D.S., A.M., Assistant Professor of Orthodontic Research assisted by special lecturers on collateral subjects and members of the Orthodontic staff.

This course comprises a series of lectures, clinics, and conferences on practical Orthodontia.

The course is open to graduate students and students of the Senior class who may show unusual ability for this work and is designed to assist men in their preparation for the active practice of Orthodontia, or as teachers.

It is desirous that only those showing an aptitude for Orthodontia shall enroll.

Students in this course are expected to be in attendance at the general Orthodontic clinic where there will be opportunity for observation and practice. Part of the course will be given evenings at the office of Professor Rogers, 520 Beacon St.

Students who elect to take one or more cases must attend for the full academic year. Students who enter for the lectures and observation only may drop out of the course at such time as they may wish.

The fee for students taking the full course with practical work will be $200; other students $150.

Syphilology

C. Morton Smith, M.D., *Clinical Professor of Syphilology.*

The course consists of lectures and clinical instruction given at the Massachusetts Hospital, Out-Patient Department for Syphilis.

Students have an opportunity to see the common and many of the rarer manifestations of syphilis in the mouth and throat as well as non-syphilitic lesions that may be confusing. There are many patients showing changes in the teeth and jaws due to congenital syphilis.

Ward patients are utilized for teaching where they show conditions of interest from a dental standpoint.

Colored plates, photographs and plaster models of interesting or unusual manifestations are also employed.

Each student attends four one and a half hour exercises.

Lectures and clinical instruction given during the first half-year.

Surgery, Surgical Pathology, and Oral Surgery

George H. Monks, M.D., M.R.C.S., *Professor of Oral Surgery.*
Varaztad H. Kazanjian, D.M.D., M.D., *Professor of Clinical Oral Surgery.*
Leroy M. S. Miner, D.M.D., M.D., *Professor of Clinical Oral Surgery.*
Chauncey N. Lewis, D.M.D., *Instructor in Oral Surgery.*
Philip I. Johnson, D.M.D., *Instructor in Oral Surgery.*

Lectures embracing the general subjects of inflammation, suppuration, ulceration, gangrene, necrosis, erysipelas, septicemia, pyemia, shock, repair, etc.; and special subjects which more particularly concern Oral Surgery. These lectures will be illustrated, so far as possible, by diagrams, by demonstrations of pathological specimens, and by exhibition of clinical cases at the Boston City Hospital and by weekly clinics in the Surgical Department at the Dental School. Instruction will be given in the use of anaesthetics.

Text-books. — Da Costa's Modern Surgery. Brewer's Surgery. Warren, Surgical Pathology.

Lectures. Professor Monks. *Once a week for twenty-four weeks.* 24
Professor Kazanjian. *Once a week for sixteen weeks.* 16
Professor Miner. *Once a week for thirty weeks.* 30

Clinics. Professor Monks, Professor Miner, and Dr. Johnson. *Once a week, throughout the year.* 96

Clinics. Professor Kazanjian and Dr. Lewis. *Once a week for sixteen weeks* 64

Preventive Dentistry and Oral Hygiene

William P. Cooke, D.M.D., *Professor of Preventive Dentistry and Oral Hygiene.*
E. Melville Quinby, D.M.D., *Instructor in Oral Hygiene.*
Benjamin Tishler, D.M.D., *Instructor in Oral Hygiene.*
Chester L. Sandiford, *Assistant in Oral Hygiene.*
Russell B. Macfarlane, D.M.D., *Instructor in Oral Hygiene.*
Richard B. Pomeroy, D.M.D., *Assistant in Oral Hygiene.*

This course comprises lectures and clinical demonstrations together with their practical application by the student in the treatment of patients. Lectures and clinics are given dealing with causes, diagnosis, and treatment of periodontoclasia. Exceptional opportunities for instruction are afforded in the large clinic through a large number of patients of various nationalities who present many different types of conditions.

The principles of periodontia, the relation of diet to dental disease, the public health problem, as seen through the dental diseases of public school children, and the prevention of dental disease in private practice are given thorough consideration.

From material already collected much of the lecture material presented is illustrated with lantern slides, a means of demonstration and training which will be added to as time goes on.

Due to a large opportunity for the study of several foreign-born races, characteristic dental differences, congenital and acquired, are given careful study.

A circulating library of books and current pamphlets is available to students taking the course, and collateral reading is definitely outlined and suggested with a view to constructive education in this important field. Each student prepares a thesis, based on clinical experience and upon associated study, dealing with subjects defined by the instructors.

The examination includes practical clinical experience and theory as gathered from lectures and outside reading.

Oral Pathology

Charles A. Brackett, D.M.D., *Professor of Oral Pathology.*

The lectures by this Chair are devoted especially to the consideration of pathological conditions in the region and tissues with which the dentist is most intimately concerned. While there is constant reference to the general principles of Pathology, and to the work and instruction of other members of the teaching staff, upon the subject, including its bacteriological and histological aspects, in this course the greater prominence is given to the clinical presentments. The diseases of the dental and contiguous tissues are considered in detail with reference to their causes, nature, manifestations, terminations, and relations with systemic conditions. Emphasis is placed on diagnosis, prognosis, and indications for treatment and operations.

Text-books. — Endelman-Wagner, General and Dental Pathology. Burchard-Inglis, Dental Pathology and Therapeutics. Thoma, Oral Abscesses.

Collateral Reading. — Barrett, Oral Pathology and Practice. McFarland, Text-Book of Pathology. Stengel-Fox, Text-Book of Pathology. Warren, Surgical Pathology and Therapeutics. Mallory, Principles of Pathologic Histology. Brown, Oral Diseases and Malformations.

Students are urged to maintain acquaintance with the constant progress of knowledge upon the subject as published in the better dental, medical and surgical periodicals.

Lectures. Professor Brackett. *Once a week for sixteen weeks.* 16

Materia Medica, Pharmacology and Therapeutics

J. William O'Connell, D.M.D., *Assistant Professor of Materia Medica, Pharmacology and Therapeutics.*

The course includes the study of drugs used in medicine; their sources, physical and chemical properties, constituents, preparations and doses.

Pharmacology, the science dealing with the action of drugs upon the tissues, organs, and functions of the body, is given special attention. At frequent intervals demonstrations on animals will be given, showing the pharmacologic action of the more important drugs.

Sufficient Therapeutics is taught to give students an intelligent idea of the use of drugs, and their application in pathological conditions.

Toxicology, the study of poisons, their antidotes and antagonists, also the treatment in cases of poisoning, receive careful attention.

Prescription writing and the incompatibility of drugs are duly considered.

Quizzes are held frequently throughout the year.

Text-books. — Bastedo, Materia Medica, Pharmacology, and Therapeutics. Long, Dental Materia Medica, Therapeutics, and Prescription Writing. Prinz, Dental Materia Medica and Therapeutics. Buckley, Dental Materia Medica and Therapeutics.

Collateral Reading. — Hare, Practical Therapeutics. Cushny, Pharmacology and Therapeutics. United States Pharmacopoeia.

Materia Medica and Pharmacology. Lectures. Professor O'Connell. *Once a week throughout the second year.* 30

Therapeutics. Lectures. Professor O'Connell. *Once a week for fifteen weeks during the third year.* 15

Neurology

Edward W. Taylor, M.D., *Professor of Neurology.*

A course of four lectures on Neurology will include a brief review of the anatomy and physiology of the nervous system, the anatomy of the trifacial nerve being made the subject of special study.

The nervous disturbances liable to be set up by dental irritation, and, conversely, those likely to produce odontalgia, will be considered as fully as the limited nature of the course permits, special attention being paid to trifacial neuralgia. The relation of certain functional disorders to the work of the dentist will also be considered.

Lectures. Professor Taylor. *Once a week for four weeks.* 4

CLINICAL ADVANTAGES

The Dental School is established in Boston in order to secure those advantages for Clinical Instruction which are found only in large cities.

The clinics of the Dental Hospital afford a sufficient number of patients to give each student abundant practice in all branches of Dentistry.

Each student is assigned a chair in the Operative Infirmary and is required to operate three hours a day, five days each week, giving him during each year 480 hours of practice.

Each student is assigned a bench in the Prosthetic Laboratory and is required to work at the bench or in the Prosthetic Infirmary three hours a day for six days each week, giving him 576 hours of practice each year.

The Peter Bent Brigham Hospital. — This general hospital has been in active operation since February, 1913. The hospital is for general medical and surgical cases, and is situated on ground adjacent to the Medical School buildings. There are in all 226 beds, and there is a medical, dental and surgical out-patient department which is open for patients throughout the day. Dr. Henry A. Christian, Hersey Professor of the Theory and Practice of Physic, and Dr. Harvey Cushing, Moseley Professor of Surgery, in the Harvard Medical School, have been appointed by the trustees of the Hospital Physician-in-chief and Surgeon-in-chief respectively. Dr. William H. Potter, Professor of Operative Dentistry in the Harvard Dental School is Consulting Dental Surgeon with Dr. Harold A. Kent, Instructor in the Harvard Dental School, as Dental Surgeon.

The Massachusetts General Hospital. — During 1921, 6,584 patients were treated in the wards, where there are 358 beds; 11,190 patients were treated in the Emergency Ward; and there were 169,869 visits to the out-patient departments. Patients are received from all parts of the United States and the Provinces. Operations are numerous, and are performed in the surgical building. Last year there were 3,954 operations in the house and 6,203 in the out-patient department. Clinics are held in the Out-Patient Department in Medicine, Surgery, Dentistry, Children's Medical, Dermatology, Genito-Urinary, Laryngology, Orthopedics, and Syphilis. The following have been established: Anaphylaxis, Arthritis, Cardiac, Convalescent, Dental, Diabetic, Infantile, Industrial, Massage, Non-pulmonary Tuberculosis, Nutrition, Vaccine Treatment, and X-ray Treatment.

The Dental and Oral Surgery Clinic is open on the forenoons of Monday, Wednesday, and Friday and is administered by the following staff, several of whom teach in the surgical course at the Dental School.

Leroy M. S. Miner, D.M.D., M.D., Professor of Clinical Oral Surgery, Chief of Staff.

Monday, Fred R. Blumenthal, D.M.D., Instructor in Orthodontia, Glenn W. Lawrence, D.M.D., Instructor in Oral Surgery; Wednesday, Joseph A. Ring, D.M.D., Instructor in Extracting and Anaesthesia, Harold C. Robinson, D.M.D., Instructor in Oral Surgery; Friday, John A. Breen, D.M.D., Instructor in Oral Surgery, F. Chester Durant, D.M.D., Instructor in Oral Surgery.

Sections for clinical studies at the Nose and Throat Department. Wednesdays, Assistant Professor Wright.

The Children's Hospital. — The new buildings of the Hospital are on Longwood Avenue, adjacent to the Harvard Medical School. During the year 1921 5,256 cases were treated in the wards and 47,338 visits were made to the out-patient departments. There are 150 beds. Instruction in pediatrics, surgery and orthopedic surgery is given by members of the hospital staff. The dental clinic is administered by the following teachers in the Harvard Dental School: Dr. Leroy M. S. Miner, Professor of Clinical Oral Surgery is Consulting Oral Surgeon, with Dr. Fred R. Blumenthal, Instructor in Orthodontia and Dr. Philip I. Johnson, Instructor in Oral Surgery.

LIBRARIES AND MUSEUMS

The College Library at Cambridge is open to students, and also the Library of the Boston Medical Library Association, which has a dental section containing a large and very complete collection of dental literature. It includes the libraries of the American Academy of Dental Science and the Massachusetts Dental Society. There is a good reference library of modern books, including encyclopaedias, systems, etc. The Library is open daily, except Sundays and holidays, from 9 A.M. to 6 P.M. It is also open Tuesday and Friday evenings from 7 to 10, except during July and August.

The Dental School Library, Dr. John W. Cooke, A.B., D.M.D., *Librarian*, contains about 2,991 well selected volumes to which the students and graduates of the School have free access.

The Boston Public Library is open to students who are inhabitants of Boston. Students, not inhabitants of Boston, who have filed a bond at the Bursar's office, or deposited with the Bursar the sum of fifty dollars, may also use this Library.

The Boston Medical Library, No. 8 The Fenway, contains about 84,000 bound volumes and 56,000 pamphlets, and nearly 650 current periodicals are on file. This very valuable Library is open to those who desire to consult medical literature, on week days from 9.30 A.M. to 10 P.M., on Saturdays till 6 P.M.

The Dental Museum is in charge of Dr. Adelbert Fernald, *Curator*. It contains about 3000 specimens, and offers unusual facilities for study of the teeth. The pathological anatomy of the teeth is shown by more than 2000 specimens, among which are over 200 dissected teeth showing formations of secondary dentine in the pulp cavity, and also many other rare specimens of great value. There are 700 other specimens of human and comparative anatomy, illustrating a wide range of knowledge.

PHILLIPS BROOKS HOUSE

Harvard University

The Dental School Society, a branch of the Phillips Brooks House Association, represents the religious, philanthropic, and social interests among the students in the Harvard Dental School. Membership in the society is open to any student who is in sympathy with any one or more of these objects. The society maintains an information bureau at the opening of the college year, at which catalogues, pamphlets, maps, and lists of boarding houses are furnished. It also organizes discussion groups and conducts meetings addressed by leading men in the dental profession, the main object of these meetings being to present the ethical side of the profession. The society is also planning to organize an employment bureau.

FELLOWSHIPS AND SCHOLARSHIPS

The Frederick Sheldon Fund for Travelling Fellowships; the University received in 1909 the sum of three hundred and forty-six thousand four hundred and fifty-eight dollars and seventy cents from the residuary bequest of Mrs. Amey Richmond Sheldon, and in 1910 the further sum of eight thousand seven hundred and fifty dollars from the same bequest, to establish, in memory of Mrs. Sheldon's husband, a member of the Class of 1842, the Frederick Sheldon Fund, "the income thereof to be applied in the discretion of and under rules to be prescribed by the President and Fellows . . . to the further education of students of promise and standing in the University by providing them with facilities for further education by travel after graduation or by establishing travelling scholarships." The income of this fund is at present about fifteen thousand dollars.

By a vote of the President and Fellows, a Committee of seven persons has been appointed to administer the Frederick Sheldon Fund for travelling scholarships. The income is not to be assigned in scholarships of fixed amounts, but "on recommendation to the Committee from the various Departments and Schools, to be assigned as the Committee shall

deem most expedient for purposes of investigation or study either in this country — outside Harvard University — or abroad."

The Committee consists of the Deans of the Faculty of Arts and Sciences, the Graduate School of Arts and Sciences, the Graduate School of Business Administration, the Divinity School, the Law School, the Medical School, and the Bussey Institution.

Application in behalf of a student in any School, Division, or Department of the University must be made through the Dean or Chairman of that School, Division, or Department, to the Chairman of the Committee, Dean L. B. R. Briggs, and may be made at any time.

The Daniel A. Buckley Scholarships; with an income of two hundred dollars each, for graduates of the public schools of the city of Cambridge.

The Charles Elliott Perkins Scholarships; three undergraduate scholarships and one graduate scholarship, with an income of three hundred dollars each. In 1909, thirty thousand dollars was received from Mrs. Charles Elliott Perkins, of Burlington, Iowa, "in trust for the establishment of scholarships in Harvard University for students from Iowa, the scholarships to be forever known and designated as the 'Charles Elliott Perkins Scholarships.'

". . . . It is my desire that the benefits of this foundation shall be open to those desiring a so-called classical or liberal education, and to those desiring to fit themselves for the professions; and especially that young men who intend to pursue technical studies in preparation for a career in business or engineering may be encouraged by these scholarships to precede their technical studies, or combine them, with such liberal studies as shall contribute to their breadth of view, sympathy with all humane interests, and capacity for ultimate leadership. In fulfilment of the purpose above described, I desire the income of the fund to be divided among four or more scholarships, in accordance with the following terms: —

"I. One undergraduate scholarship of at least $300, to be offered annually, upon his graduation from an Iowa high school, to a *bona fide* resident of that part of the State of Iowa which is now served by the Chicago, Burlington & Quincy Railway system.

"II. Two undergraduate scholarships of $300 each, to be offered annually to students from Iowa high schools. . . .

"III. One graduate scholarship of $300, to be offered each year to a graduate of an Iowa college or university in any of the graduate or professional departments of Harvard University.

The Eugene Hanes Smith Scholarship. In 1920, in recognition of Dean Smith's twenty-five years of service to the Dental School, the Har-

vard Dental Alumni Association gave a sum of money for the establishment of a scholarship, to be known as The Eugene Hanes Smith Scholarship. The income from this fund will be awarded annually to a worthy and meritorious student in the third or fourth year of the Dental School, who has been a student in regular standing during the first and second years. The income may be divided between two students at the discretion of the Dental Committee on Scholarships.

Application for this scholarship must be handed to the Dean in writing.

The Joseph Eveleth Scholarship; with an income of $225, founded by Joseph Eveleth of Boston and Watertown, Sheriff of Suffolk County from 1840 to 1855, except in 1853.

Peter E. Strauss Scholarship with an income of five hundred dollars. Established under the will of Emily R. M. Strauss of Boston.

The above scholarships apply to the Dental students only.

The Committee on these scholarships consists of Eugene H. Smith, W. H. Potter, A. I. Hadley, and L. M. S. Miner.

The William Stanislaus Murphy Scholarships; with an income of two hundred and fifty dollars each, founded by William Stanislaus Murphy, of the class of 1885, to be used for the education of men of the name of Murphy, who, in the judgment of the Faculty prove deserving of this kind of encouragement. These scholarships are available for students in all departments of the University.

The Princeton Fellowship; with a stipend of four hundred and fifty dollars. From a graduate of Princeton University, to be awarded to a graduate of that University studying in any department of Harvard University.

These scholarships and gratuities are awarded to such men among those applying for and needing assistance as give evidence of having done the best work either in this School or in a preparatory course elsewhere.

Students who have not been able to obtain scholarships often find time and opportunity to do outside work of various kinds in the city.

DENTAL RESEARCH

Percy R. Howe, A.B., D.D.S., *Assistant Professor of Dental Research.*

Lectures and conferences throughout the third year.

The Harriet Newell Lowell Society for Dental Research

In 1907, Miss Harriet Newell Lowell bequeathed to the Harvard Dental School a sum of money, the interest to be applied each year to dental research. In addition to the appointment of a special research

worker and a research committee of five men, the Administrative Board formed the Harriet Newell Lowell Society for Dental Research. The object of the Society is to interest the students in research. Its president and a majority of its executive committee are students, and meetings are held in the School building. A well-equipped research laboratory is open for the use of the students and teachers who are interested in scientific investigation.

Roland E. Morse, *President.*
Leo E. Finkelstein, *Vice President.*
Lawrence W. Baker, D.M.D., Professor of Orthodontia, *Treasurer.*
Harold E. Dyer, *Student Treasurer.*
H. Carlton Smith, Assistant Professor of Dental Chemistry, *Secretary.*
Jansen K. Hoornbeck, *Student Secretary.*

Research Committee. — Percy R. Howe, A.B., D.D.S., H. Carlton Smith, Ph.G., Lawrence W. Baker, D.M.D., Kurt H. Thoma, D.M.D., Leroy M. S. Miner, D.M.D., M.D., *Chairman.*

WARREN ANATOMICAL MUSEUM IN THE MEDICAL SCHOOL

The Warren Anatomical Museum was founded in 1847 by John Collins Warren, of the College Class of 1797, Adjunct Professor of Anatomy and Surgery from 1809 to 1815, Hersey Professor of Anatomy and Surgery from 1815 to 1847, Professor *Emeritus* from 1847 to his death in 1856, son to John Warren, the first Hersey Professor of Anatomy and Surgery. This important Museum is open to students in the School, and its collections are used in demonstration of the lectures.

The collection has about ten thousand specimens, illustrating both normal and pathological anatomy and materia medica. These are placed in the hands of the student at any time during the day, upon application to the Curator.

Besides dissections and serial sections of many bones, the anatomical collection includes many corrosive preparations, plaster and papier maché models of bones, organs, and various parts of the body, and frozen sections.

The pathological collection is being constantly enlarged by the addition of numerous specimens, preserved in their natural colors by Kaiserling's method.

EXAMINATIONS

The final examination in every required subject is held at the close either of the first or of the second term of the school year. The examination, therefore, in every subject occurs once a year, but an opportunity to make up failures in examinations is offered at the opening of the school year. The examination in certain studies of the first year is held at *mid-year* only, and is for those who are members of the School at the time, and for those entitled to apply for the degree, provided they have failed previously in those subjects. The *June examination* is only for those who are members of the School at the time, and for those entitled to apply for the degree. The *September examination* is for conditioned students or for applicants for advanced standing. In some branches a portion of the examination consists of practical work in the laboratory.

The subjects in which examinations are held are as follows: —

First Year. — Comparative Anatomy (3 hrs.), Anatomy (3 hrs.), Histology and Embryology (3 hrs.), Chemistry (3 hrs.), Prosthetic Dentistry.

Second Year. — Physiology* (3 hrs.), Operative Dentistry (2 hrs.), Oral Hygiene and Preventive Dentistry (2 hrs.), Chemistry (2 hrs.), Prosthetic Dentistry (2 hrs.), Materia Medica (2 hrs.).

Third Year. — Clinical Chemistry (2 hrs.), General Pathology (2 hrs.), Bacteriology (2 hrs.), Operative Dentistry (2 hrs.), Radiography (2 hrs.), Therapeutics (2 hrs.), Prosthetic Dentistry (2 hrs.), Surgery and Surgical Pathology (2 hrs.), Oral Anatomy and Histology (2 hrs.).

Fourth Year. — Operative Dentistry (2 hrs.), Dental Pathology (2 hrs.), Prosthetic Dentistry (2 hrs.), Orthodontia (2 hrs.), Surgery and Physical Diagnosis (2 hrs.), Syphilis (2 hrs.), Neurology (2 hrs.), Oral Diseases (2 hrs.), Extracting and Local Anaesthesia (2 hrs.), Inlays (2 hrs.).

REQUIREMENTS FOR THE DEGREE

The degree of Doctor of Dental Medicine (*Dentariae Medicinae Doctoris*) may be conferred upon any candidate of adult age, and of good moral character, who has passed *all the required examinations*. He must also give evidence of having studied Medicine or Dentistry in some recognized school four full years, the last continuous year of which must have been spent at this School.

The degree of Doctor of Dental Medicine *cum laude* will be given to candidates who have pursued a complete four years' course in this School and obtained not less than ninety per cent in Practical Operative and Prosthetic Dentistry and an average of ninety per cent or over in all other required examinations.

* The examinations in these subjects are held at the end of the first half-year.

The course is a graded one of four continuous years. *Graduates* from other reputable Dental Schools whose Course of Instruction consists of four years of nine months each may obtain the degree of Doctor of Dental Medicine by spending one year in the School and passing the required examinations.

The right to take the examinations, as well as the privilege of continuing membership in the School, is conditioned upon regular attendance upon lectures, infirmary practice, and laboratory exercises.

Candidates for the degree are obliged to apply for the same in writing, on blanks furnished at the Dean's office, on or before *May 1* of the year in which they propose to graduate.

INSTRUMENTS

With the exception of extracting instruments, lathes, and vulcanizers, each student will be required to furnish his own instruments, and appliances for both laboratory and operating room.

At mid-years of the first year a small number of instruments for use in the Prosthetic laboratory, costing about thirty dollars, are required.

At the beginning of the second year a list of instruments required for use in both the Operative and Prosthetic Departments is furnished by the School, and each student is required to provide himself with the instruments enumerated upon the lists before beginning his work. The cost of these instruments, including the dental engine, is about one hundred and sixty dollars.

The instruments required in the third year cost about sixty dollars. There are no additional instruments required in the fourth year.

A deposit of two dollars with the Dean of the Medical School will entitle a student to the use of a locker in the Medical School buildings during the first year.

A student who wishes to rent a microscope of the School can do so upon payment of four to six dollars a half-year.

FEES AND EXPENSES

There are no fees for matriculation, for the diploma, nor for the demonstrators. The tuition-fee is two hundred and thirty dollars which includes all laboratory fees and will be charged on the term-bills in four instalments. In addition students will be charged for any loss of material or breakage.

The student's general expenses may be reduced, in accordance with his means, to the standard which prevails in other cities. A list of boarding places, at various prices, can be obtained at the Dean's office.

PAYMENT OF TERM-BILLS

Tuition will be charged on the term-bills in four instalments as follows: one-fourth on a term-bill issued and payable September 25, one-fourth on a term-bill issued November 13 and payable November 29, one-fourth on a term-bill issued January 12 and payable January 30, one-fourth on a term-bill issued April 12 and payable April 30.

Bills for miscellaneous charges will be rendered at the time the indebtedness is incurred.

All students doing less than full work and paying at the course rate will be required to pay each quarter in advance a sum equal to the fee for one course until their tuition-fee is paid in full.

All indebtedness to the University must be paid by all candidates for degrees at least one day before Commencement.

Students who are candidates for degrees in the middle of the academic year must pay all dues to the University at least one day before the day upon which the degrees are to be voted.

The term-bills are sent to the student at his Catalogue address unless the Bursar is requested in writing to send them elsewhere.

When a student's connection with the University is severed, all charges against him must be paid at once.

Any student whose indebtedness to the University remains unpaid on the date fixed for payment is deprived of the privileges of the University until he is reinstated. Reinstatement is obtained only by consent of the Dean of the Department in which the student is enrolled, after payment of all indebtedness and a reinstatement fee of ten dollars.

Every student is required to file with the Bursar on his entrance to the School a bond of *fifty dollars*, executed by two sufficient bondsmen, one of whom must be a citizen of the United States, or by a surety company duly qualified to do business in Massachusetts; or, to deposit fifty dollars in money, to cover the loss or injury of any property belonging to the University, or for which it is responsible. Every student in any department of the University who boards at the Union, the Freshman Halls, Memorial Hall, or the Cafeteria must file a bond for *four hundred dollars*. Every student who occupies a College room must file a bond for four hundred dollars or must pay in advance the full year's rent of his room. No officer or student of the University is accepted as bondsman. Blank forms of bonds may be obtained from the Dean's office. Students will be held responsible for the payment of fees until they have notified the Dean, in writing, of their intention to withdraw from the School. *No degree can be conferred until all dues to the School are discharged.*

A student who enters the University after the beginning of the academic year is charged from the beginning of the tuition period in which he

enters. One who leaves during the year is charged to the end of the tuition period in which he leaves, provided before that time he gives the Dean notice in writing of his withdrawal; otherwise he is charged to the end of the academic year or to the end of the tuition period in which such notice is given. The first tuition period begins at the beginning of the academic year and ends November 24; the second begins November 25 and ends at the end of the first half-year; the third begins with the second half-year and ends with the spring recess; and the fourth begins at the close of the spring recess and ends at Commencement.

Stillman Infirmary Fee

Not later than October 1 in each academic year, any student may pay to the Bursar the sum of five dollars for the maintenance of the Stillman Infirmary; and, on the order of a physician, every student who has taken advantage of this opportunity will be given, in case of sickness, in return for the fee, a bed in a ward, board, and ordinary nursing for a period not exceeding two weeks in any one academic year.

Students, on joining the School, and at the beginning of each school year, must enter their names with the Dean of the School. They are expected to register on the first day of the academic year, *the Monday preceding the last Wednesday in September.*

STUDENTS

Post-Graduates

NAME	HOME RESIDENCE	PRESENT ADDRESS
Enholm, Philip Andrea, D.M.D. (*Tufts Coll.*) 1919.	*Newton Lower Falls,*	2054 Beacon St., Newton Lower Falls
Fujishiro, Shinji, D.D.S. (*Nippon Dental Coll.*) 1917, D.M.D. 1922	*Chiba-Ken, Japan,*	149 Newbury St., Boston
MacGregor, Judson Stewart, S.B. (*Acadia Univ.*) 1908, D.M.D. 1914.	*Boston,*	164 Newbury St., Boston
Murphy, Edward Russell, D.M.D. 1915.	*Boston,*	529 Newbury St., Boston
Prentice, Wentworth Baldwin, D.M.D. 1916.	*Pekin, China,*	19 Huron Ave., Cambridge
Starratt, Wilfrid Harlow, A.B. (*Acadia Univ.*) 1892, D.M.D. 1898.	*Boston,*	194 Boylston St., Boston

Fourth Year

Apgar, Frederick Milton,	*Flemington, N. J.*	142 Hemenway St., Boston
Barrett, Louis Gonyon,	*Keene, N. H.*	879 Beacon St., Boston
Bates, Leslie Marriner,	*Beachmont,*	830 Winthrop Ave., Beachmont
Beal, Sumner Maxwell,	*Rockland,*	555 Huntington Ave., Boston
Bowers, Lawrence Wetherbee,	*Brookline,*	22 Atherton R'd, B'kline
Boyle, Paul Edmund,	*Medford,*	38 Pembroke St., Medford
Butterfield, Percy Rueull,	*Winterport, Me.*	553 Huntington Ave., Boston
Cohen, David Harold,	*Buffalo, N. Y.*	59 Hemenway St., Boston
Crowe, Alfred Borbridge,	*Pawtucket, R. I.*	208 Aspinwall Ave., B'kline
Curry, John Edward, Jr.	*Watertown,*	206 No. Beacon St., Watertown
Dalal, Jehangir Cooverji,	*Calicut, Malabar, India,*	555 Huntington Ave., Boston
Davey, Harvey Omri,	*Coeur d'Alene, Idaho,*	706 Huntington Ave., Boston
Davis, Paul Irving,	*So. Portland, Me.*	208 Aspinwall Ave., B'kline
Deslauriers, Joseph Amable,	*Ware,*	208 Aspinwall Ave., B'kline
Dickinson, Richard, L.D.S. (*Royal Coll. of Surgeons, England*) 1922.	*Chelsea, London, Eng.*	586 Huntington Ave., Boston
Dimmitt, Frank Ellison,	*Shelbina, Mo.*	1173 Commonwealth Ave., Allston
Ecker, William Hersch,	*Worcester,*	6 Palm St., Worcester
Eller, Wirt Elza,	*San Francisco, Cal.*	208 Aspinwall Ave., B'kline

Faass, Elton Vincent, *Utica, N. Y.* 25 Peterboro St., Boston
Fain, Archie Israel, *Westerly, R. I.* 59 Hemenway St., Boston
Favre, Alexis Charles, *Chateau de Bursinel, Switzerland,* 57 Westland Ave., Boston
Finkelstein, Leo Samuel, *Waterbury, Conn.* 212 Hemenway St., Boston
Flagg, Lloyd Eugene, *Buffalo, N. Y.* 316 Huntington Ave., Boston
Franké, Georges, *Lyons, France,* 84 Fenway, Boston
Fraser, Gordon Alexander, *Pretoria, Transvaal, So. Africa,* 491 Huntington Ave., Boston
Fraser, Oswald Lambert Kelly, *Montreal, Can.* 80 W. Rutland St., Boston
Gibson, Frederick Alexander, *Portsmouth, N. H.* 17 Sheafe St., Chestnut Hill
Goldberg, Solomon, *E. Boston,* 170 Lexington St., E. Boston
Gomperts, Alexander David, *The Hague, Holland,* 74 Francis St., Rox.
Haley, Frederick Alchorn, *Arlington,* 20 Freeman St., Arlington
Halleran, Thomas Leonard, *Waltham,* 157 Summer St., Waltham
Halsall, Robert Johnson, *Southport, Lancashire, Eng.* 70 Perry St., B'kline
Hamilton, Gail Smith, *Richford, Vt.* 143 Hemenway St., Boston
Hamman, Eduard Christiaan, *Carolina, Transvaal, So. Africa,* 721 Huntington Ave., Boston
Hayeslip, Harold Edwin, *Manchester, N. H.* 535 Granite St., Manchester, N. H.
Herzog, Eduard Konrad, *Olten, Switzerland,* 84 Fenway, Boston
Hickey, Albert Ferdinand, *Dorchester,* 49 Julian St., Dor.
Hoerner, William Strohm, *Harrisburg, Pa.* 208 Aspinwall Ave., B'kline
Irvine, Walter Holland, *Fredericton, N. B.* 208 Aspinwall Ave., B'kline
Jenks, Harold, *Johannesburg, Transvaal, So. Africa,*
L.D.S. (*Univ. of Liverpool*) 1922. 70 Perry St., B'kline
Jones, Cyril Hyman, *Brooklyn, N. Y.* 208 Aspinwall Ave., B'kline
Jordan, William Barnes, *So. Portland, Me.* 143 Hemenway St., Boston
Kaden, George, *Newark, N. J.* 59 Hemenway St., Boston
King, Maurice Pickard, *Bangor, Me.* 93 Binney St., Boston
King, Ronald Martin, *Laconia, N. H.* 491 Huntington Ave., Boston
Lemieux, Henri, *Montreal, Can.* 2 Westland Ave., Boston
D.D.S. (*Univ. of Montreal*) 1922
Levinson, Charles Abraham, *Boston,* 36 Allen St., Boston
Lindsay, Fred Murray, *Ansonia, Conn.* 255 Spring St., W. Rox.
Lloyd, Thomas Morrison, *Mackay, Qucensland, Australia,*
B.D.S. (*Univ. of Sydney*) 1922 7 Vancouver St., Boston
Lynch, Philip Edward, *So. Lancaster,* 208 Aspinwall Ave., B'kline
Maloney, Arthur Michael, *Hornell, N. Y.* 22 Burroughs St., Jam. Pl.

Mandell, Israel, *Revere,* 43 Thornton St., Revere
Marsh, Brooks Herbert, *Elmhurst, L. I.* 208 Aspinwall Ave., B'kline
Monahan, James Joseph, *Dorchester,* 52 Corona St., Dor.
Morse, Roland Elwin, *Madison, Me.* 80 Gainsboro St., Boston
Murray, William Judkins, *Madison, Me.* 80 Gainsboro St., Boston
Peres, Robert, *Passaic, N. J.* 59 Hemenway St., Boston
Pollet, Irving Leon, *Worcester,* 59 Hemenway St., Boston
Pooler, Carlton Fernald, *Watertown,* 286 Belmont St., Watertown
Pratt, Leon Stanley, *Augusta, Me.* 553 Huntington Ave., Boston
Pretorius, Christoffel Johannes, *Delmas, Transvaal, So. Africa,* 772 Huntington Ave., Boston
Pretorius, Hendrik Stephanus, *Delmas, Transvaal, So. Africa,* 491 Huntington Ave., Boston
Richardson, Lloyd Morse, *Rockland, Me.* 141 Winthrop St., Medford Hillside
Rowe, Russell, *No. Attleboro,* 100 Reservoir St., No. Attleboro
Scott, Kenneth Earl Warwick, *Warwick, R. I.* 568 Columbus Ave., Boston
Seavey, Arthur Jones, *New Braintree,* 208 Aspinwall Ave., B'kline
Shone, Lloyd Bertram, *San Francisco, Cal.* 208 Aspinwall Ave., B'kline
Silverman, Samuel Herman, *New York, N.Y.* 59 Hemenway St., Boston
Smith, Richard Lawrence, *Brighton,* 59 Nottingham R'd, Brighton
Smolar, Herbert, *Cambridge,* 303 Elm St., Cambridge
Strock, Moses Solomon, *Dorchester,* 62 Glenway St., Dor.
Tisdale, Everett Adams, *Medford,* 129 George St., Medford
Traedal, Torkel Nicolay, *Christiania, Norway,* 32 Linden St., B'kline
Van Oostrum, Omius, *Pretoria, So. Africa,* 772 Huntington Ave., Boston
Veo, Charles Kenneth, *Newtonville,* 76 Otis St., Newtonville
Walsh, William Augustine, A.B. (*Bates Coll.*) 1913. *Lewiston, Me.* 255 Spring St., W. Rox.
Young, Arthur Price, *Dorchester,* 154 Welles Ave., Dor.

THIRD YEAR

Abt, Edgar Leo, *New York, N. Y.* 7 Vancouver St., Boston
Ansel, Edward Myer, *Chelsea,* 6 George St., Chelsea
Arnaud, Jean Victor Charles Eugene, *Paris, France,* 86 Francis St., Boston
Austin, Clyde Linton, *Madison, Me.* 316 Huntington Ave., Boston
Balicer, Leon Bruno, *Boston,* 23 Fayston St., Boston
Bay, Earl Charles, *Seymour, Conn.* 142 Hemenway St., Boston
Bishop, Edward Lawrence, *E. Boston,* 1085 Saratoga St., E. Boston
Broder, Benjamin, *Chelsea,* 64 Grove St., Chelsea
Carder, Ralph Thomas, *Roxbury,* 49 Walnut Ave., Rox.

Chadbourne, Bailey Paul Brackett, *Dorchester,* 64 Dracut St., Dor.
Cleaves, Paul Longfellow, *Montpelier, Vt.* 143 Hemenway St., Boston
Collins, John Michael, *Chazy, N. Y.* 232 Aspinwall Ave., B'kline
Cox, Harold Joseph, *Hampden Highlands, Me.* 93 Binney St., Boston
Crocker, William Ellery, *Medfield,* 7 Vancouver St., Boston
Cushner, Isadore Edward, *Roxbury,* 360 Walnut Ave., Rox.
Cutler, Chester Blake, *Brighton,* 50 Atkins St., Brighton
Daley, Lombard John, *So. Boston,* 57 M St., So. Boston
Dalpé, Joseph, Jr., *Brockton,* 53 St. Stephen St., Boston
Derritt, Oliver James, Jr., *Philadelphia, Pa.* 52 Windsor St., Boston
Doherty, Julian Benedict, *Cambridge,* 19 Bellevue Ave., Cambridge
Dyer, Harold Edward, *Lewiston, Me.* 223 Aspinwall Ave., B'kline
Erbe, Edwin Valentine, *Waterbury, Conn.* 46 St. Stephen St., Boston
Frankel, Ephraim Edward, *Chelsea,* 86 Central Ave., Chelsea
Furfey, Robert Mortimer, *Boston,* 194 Marlboro St., Boston
Gibson, George Cornelius, *Waterbury, Conn.* 46 St. Stephen St., Boston
Godfrey, Elbert Swift, *Bridgewater,* 108 Maple Ave., Bridgewater
Gove, Burton Jordan, *Biddeford, Me.* 29 Ashland St., Medford
Gray, Frederick Irving, *Plymouth,* 47 Davis St., Plymouth
Gudath, Ernest Andrew, *Cape Town, So. Africa,* 58 Francis St., Boston
Hodgkins, Allen Carter, *Waterville, Me.* 102 Gainsboro St., Boston
Hoornbeek, Jansen Keeler, *Ellenville, N. Y.* 25 Peterboro St., Boston
Jacobs, Merlin Edwin, *Washington, D. C.* 168 Townsend St., Rox.
Jostedt, Oscar Carl, *Waterbury, Conn.* 7 Albermarle St., Boston
Joy, Frederick Taft, *Olean, N. Y.* 20 Park Drive, B'kline
Kilkelly, Thomas Francis, *So. Hadley Falls,* 63 Fenwood R'd, Rox.
Kline, Emanuel, *Malden,* 432 Bryant St., Malden
Leatherman, Gerald Hubert, *Johannesburg, So. Africa,* 25 Peterboro St., Boston
Lipshitz, Samuel Harold, *Roxbury,* 61 Howard Ave., Rox.
Lipsky, Arthur Arnold, *Bangor, Me.* 212 Hemenway St., Boston
Lothrop, Thomas Whittier, Jr., *Belfast, Me.* 19 St. Luke's St., Allston
Majumdar, Sudhir Kumar, *Calcutta, India,* 8 Worthington St., Boston
A.B. (*Univ. of Calcutta*) 1918
McCarthy, John Lane, *Cambridge,* 134 Otis St., Cambridge
McMurray, Francis Burke, *Fitchburg,* 232 Aspinwall Ave., B'kline
Morgan, Earle James, *Palmer,* 232 Aspinwall Ave., B'kline
Morton, Charles Henry, *Waltham,* 60 Columbus Ave., Waltham
Murphy, John Stephen, Jr., *Pelham, N. Y.* 3 Perkins Hall, Cambridge
Nagle, Raymond James, *So. Boston,* 88 M St., So. Boston
Nielssen, Leif Marius, *Sandefjord, Norway,* 40 Atherton R'd, B'kline

Nuñez, Roman Raphael, *Puerto Plata, Dominican Republic,* 472 Mass. Ave., Boston
Odendaal, Jacobus Paulus, *Stellenbosch, So. Africa,* 86 Francis St., Boston
Paoa, George Kapulenui, *Honolulu, Hawaii,* 53 Fenwood R'd, Boston
Paul, Frank Duston, *Island Falls, Me.* 491 Huntington Ave., Boston
Perry, George Robert, *Pine Bluff, Ark.* 18 Windsor St., Boston
Priest, Emerson Charles, *Winchester,* 8 Ridgeway, Winchester
Purinton, Alfred Verner, *Lincoln, Ill.* 7 College Hill R'd, W. Somer.
Rae, Cameron Archibald, *Newton,* 40 Bridge St., Newton
Ralston, Folke Verner, *Skurup, Sweden,* 51 Fenwood R'd, Boston
A.B. (*State Coll. of Lund*) 1918
Ratner, Samuel, *Passaic, N. J.* 59 Hemenway St., Boston
Ritter, Bernard Matthew, *Haverhill,* 16 Observatory Ave., Haverhill
Robertson, Edward Haskew, *Roorkee, U. P. India,* 249 Longwood Ave., Boston
Robinson, Philip Cooley, *Brooklyn, N. Y.* 119 Warwick St., Boston
Russell, Leslie Augustus, *Newton,* 21 Oakland St., Newton
Sandler, Harry Hyman, *Revere,* 167 Shirley Ave., Revere
Sandler, Henry Charles, *Revere,* 1765 No. Shore R'd, Revere
Schoonraad, Carl Robert, *Pretoria, So. Africa,* 36 Fenwood R'd, Boston
Silverman, Jacob, *Dorchester,* 3 Greenheys St., Dor.
Skovsgaard, Alf, *Christiania, Norway,* 316 Huntington Ave., Boston
Sweeney, James Joseph, *Troy, N. Y.* 223 Aspinwall Ave., B'kline
Tate, Harold Wadsworth, *Canton,* 71 Revere St., Canton
Toit, Jacob Johannes du, *Fouresmith, O. F. S., So. Africa,* 36 Fenwood R'd, Boston
Tsuchiya, Motoi, *Tokio, Japan,* 412 Mass. Ave., Boston
Woisard, Lionel André, *Pittston, Penn.* 232 Aspinwall Ave., B'kline
Yuckman, Nathanial Albert, *Carteret, N. J.* 63 Fenwood R'd, Boston

SECOND YEAR

Aronson, Harold Sydney, *Johannesburg, So. Africa,* 40 Francis St., Rox.
Bickford, Arthur James, *Saranac, N. Y.* 208 Aspinwall Ave., B'kline
Binns, Elston Voorhees, *Elizabeth, N. J.* 316 Huntington Ave., Boston
A.B. (*Cornell Univ.*) 1921
Briggs, Henry, *Lexington,* 27 Eliot R'd, Lexington
A.B. 1918
Connelly, Arthur Philip *Brookline,* 68 Chestnut St., B'kline
Corcoran, John Hayes, *Old Forge, Pa.* 32 Bowker St., B'kline
Dietz, William Wallace, *Rochester, N. Y.* 232 Aspinwall Ave., B'kline
Donahue, James Evans, *Roslindale,* 103 Poplar St., Roslindale
A.B. (*Boston Coll.*) 1921

Grossman Max Bromfield, *Cambridge,* 110 Trowbridge St., Cambridge
Haas, Alfred Edgar, *New York, N. Y.* 38 Bowker St., B'kline
Hodges, Horace Aurelius, *Houston, Tex.* 38 Bowker St., B'kline
A.B. (*Atlanta Univ.*) 1920
Lancaster, Ralph Bradford, *Madison, Me.* 316 Huntington Ave., Boston
A.B. (*Unvi. of Maine*) 1921
Lissack, Arthur, *Volksrust, Transvaal, So. Africa,* 25 Peterboro St., Boston
Miller, Monroe David, *Springfield,* 212 Hemenway St., Boston
Pearce, Harold Jillson, *Buttonwoods, R. I.* 316 Huntington Ave., Boston
Riggleman, Jess Austin, *Deloit, Ia.* 316 Huntington Ave., Boston
Scott, Emmett Julian, *Richmond, Va.* 18 Windsor St., Boston
B.S. (*Virginia Union Univ.*) 1922.
Sowles, Mark Dodge, *Barre, Vt.* 53 Orchard St., Jam. Pl.
Stanton, John Clifford, *Newburyport,* 10 Arlington St., Newburyport
Thayer, Winthrop Crane, *Worcester,* 102 Gainsboro St., Boston

FIRST YEAR

Clarridge, Duane Herbert, *Milford,* 86 Francis St., Boston
Conover, Eldred Drury, *Roseland, N. J.* 53 Hemenway St., Boston
Dalton, Aubrey Hackett, *E. Braintree,* 46 Elliott St., E. Braintree
DeBaun, Clinton, Jr. *Woodcliff Lake, N. J.* 44 Francis St., Boston
Dempsey, Peter Anthony, *Dorchester,* 258 Westville St., Dor.
Dexter, Frederick Lincoln, Jr. *Mattapoisett,* 879 Beacon St., Boston
Dunley, John Joseph, *Brockton,* 11 Forest Ave., Brockton
Edwards, Roger Johnston, *Beverly,* 100 Dodge St., Beverly
Fitch, Harry Wilfred, *Palmer,* 219 Aspinwall Ave., B'kline
Gauthier, Leon Hughes, *Springfield,* 52 St. Stephen St., Boston
Goldenberg, Alexander Max, *Cambridge,* 222 Prospect St., Cambridge
Graham, William Howard, *Stoughton,* 38 Pearl Place, Stoughton
Greene, Harold William, *Fulton, N. Y.* Parker Hill Hospital, Rox.
Harootian, Simon George, *Worcester,* 249 Chandler St., Worcester
Howard, Earl Gilmore, *Old Town, Me.* 12 Elm Sq., Wakefield
Hussey, Joseph Michael, *E. Weymouth,* 33 Shawmut St., E. Weymouth
Hutton, Robert, Jr. *Newport News, Va.* 93 Francis St., Rox.
Jalko, Toivo Edwald, *Fitchburg,* 10 Johnson St., Fitchburg
Kimball, Heathcote Mureson Hartt, *Garden City, L. I., N. Y.* 316 Huntington Ave., Boston
Krasnoff, James Charles, *Dorchester,* 56 Topliff St., Dor.
Levin, Joseph David, *Newport News, Va.* 93 Francis St., Rox.
Lydon, Francis Vincent, *Abington,* 238 Park Ave., Abington
MacKinnon, Peter Reginald, *Charlottetown, P. E. I.* 19 Cortes St., Boston
MacKinnon, Tennyson Whitfield, *Glace Bay, C. B.* 112 Jersey St., Boston

McCloskey, Donald Francis, *Dorchester,* 14 Ashmont St., Dor.
Merriam, Victor Ivan, *Wakefield,* 8 Summer St., Wakefield
Merritt, DeVer Byard, *New York, N. Y.* 409 Huntington Ave., Boston
Morgan, Richard Pugh, *Johnstown, Pa.* 21 Bowker St., B'kline
A.B. (*Princeton Univ.*) 1922.
Muller, Philip Walter, *New Rochelle, N. Y.* Wmy. 3, Cambridge
Newman, Nathaniel Gross, Jr. *Elon College, N. C.*
A.B. (*Elon Coll.*) 1922 316 Huntington Ave., Boston
Norton, Stanley Brown, *Granville, N. Y.* 59 Cushing Ave., Boston
Parr, John Graham, *Newburgh, N. Y.* 409 Huntington Ave., Boston
Prombain, Charles, *Cambridge,* 291 Windsor St., Cambridge
Robarge, Carlton William, *Hinckley, N. Y.* 55 Queensberry St., Boston
Shuttleworth, Henry Lionel, *Amsterdam, N. Y.* 34 St. Stephen St., Boston
Simiele, John Joseph, *Norfolk, Va.* 656 Huntington Ave., Boston
A.B. (*Elon Coll.*) 1922
Slingsby, Arthur, *Methuen,* 6 Kirk St., Methuen
Smith, John Thomas, *Kinkora, P. E. I.* 466 Washington Ave., Chelsea
Smith, Lee Oscar, *Canton, Ill.* 53 Hemenway St., Boston
Soares, Edward Louis, *Fairhaven,* 52 St. Stephen St., Boston
Tierney, William James, *Providence, R. I.* 10 Sydney Court, Providence
Zygler, Henry Boyd, *Boston,* 220 Hanover St., Boston

Special Students

Nason, Carleton Emerson, *Everett,* 433 Broadway, Everett
Ralston, Hans August, *Skurup, Sweden,* 51 Fenwood R'd, Rox.
Ritter, William, Jr. *Chicopee,* 30 Center St., Chicopee

SUMMARY

Post Graduate Students	6
Fourth Year Students	77
Third Year Students	73
Second Year Students	20
First Year Students	42
Special Students	3
Total	221

LIST OF GRADUATES, 1922

Ahern, Wendell Giles	Barre, Vt.
Baker, Guy Lefavour	Somerville
Bauchert, John Arthur (*cum laude*)	El Paso, Texas
Best, John Victor Hall	Sydney, Australia
B.D.S. (*Sydney Univ.*) 1916	
Bishop, Kenneth Long	No. Attleboro
Branchaud, Kenneth Edward	Belmont
Bresnahan, Raymond Francis	Stoneham
Brodsky, Ralph Howard	New York, N. Y.
Byrd, Lloyd Ewing	Worcester
Carney, Henry Joseph	Boston
Crowley, Charles William	Boston
Danovitch, Lewis Julius	Canton
Fine, Samuel	E. Boston
Fink, George Joseph	Mattapan
Freedman, George	Roxbury
Fujishiro, Shinji	
D.D.S. (*Nippon Dental Coll.*) 1917	Boston
Hata, Kingo	Nagasaki, Japan
D.D.S. (*Tokyo Dental Coll.*) 1914	
Karlstrom, Karl Axel Sam	Gaule, Sweden
Koppel, Bernard William	Revere
Lane, Donald Fairfield,	Hartford, Conn.
Lanouette, Joseph Edouard,	Manchester, N. H.
Lauter, Ignatz Joseph	Brooklyn, N. Y.
LeClair, Albert Powell	New Bedford
Lowrey, Nathan Stanley	Presque Isle, Me.
Mann, Wilbur Fay, Jr. (*cum laude*)	Barre, Vt.
Margolis, Herbert Israel	New York, N. Y.
Martin, Francis James	Newton Centre
Mason, George Herbert	Bombay, India
D.M.C.C. (*Calcutta, India*) 1908	
Mason, Harold St. John	Versailles, France
D.M.C.C. (*Calcutta, India*) 1913	
Miskell, Louis	New Bedford
Moskow, Harry	Dorchester
Nesson, John Hyman	Boston
Quint, David Ernest	Dorchester
Ream, William James	Akron, Ohio
Rogers, John Lloyd	Barre, Vt.

Silver, Edward Israel	Dorchester
Taber, Sydney Alfred	Atlantic City, N. J.
Trevor, Frederick Arthur	Reading
Van der Bijl, Albertus Jacobus	Pretoria, Transvaal, So. Africa
Van Reenen, Johannes Frederick	Marguard, O.F.S., So. Africa
Vaughan, Walter Wright	Newton Centre
Vereueil, Eduard Philip Arnold (*cum laude*)	Middelburg, Transvaal, So. Africa
Wallace, John Raymond	Winchester
Wilkins, George Edward	Melrose
Wright, William Joseph	Honolulu, T. H.

OFFICIAL REGISTER OF HARVARD UNIVERSITY

[*Entered March 6, 1913, at Boston, Mass., as second-class matter, under Act of Congress of August 24, 1912.*]

Issued at Cambridge Station, Boston, Mass., three times each, in January, February, July, August, and September; eight times each, in March, April, May, and June; twice each, in October, November, and December.

These publications include: —

The Annual Reports of the President and of the Treasurer.

The Annual University Catalogue.

The Annual Catalogues of the College and the several Professional Schools of the University; the Descriptive Pamphlet; the Announcements of the several Departments; etc., etc